NATIONAL HOUSING DEVELOPMENT CORPORATION LIMITED
THIMPHU: BHUTAN
Post Box No. 1439
"Towards Shelter for All"

[PACKAGE for Phuentsholing]

BIDDING DOCUMENT
FOR

[SUPPLY OF HARDWARE ITEMS, CIVIL, ELECTRICAL PLUMBING, TOOLS &PLANT TO THE NHDCL, REGIONAL OFFICE, PHUENTSHOLING]

November 2022

PREFACE

This Standard Bidding Document for the Procurement of Goods have been prepared by the Ministry of Finance to be used for the Procurement of Goods through National and International Competitive Bidding in projects that are financed in whole or in part by the Royal Government of Bhutan (RGoB). It should be used in conjunction with the Procurement Rules and Regulations 2019. This document will come into effect from 1st July, 2019.

For any comments or clarifications on this Standard Bidding Document contact:

Government Procurement and Property Management Division
Department of National Properties
Ministry of Finance
Royal Government of Bhutan

Invitation for Bids (IFB)

Bhutan

Supply of Package, Supply of Hardware items (Civil, Electrical, Plumbing, and Tools& Plants) to the NHDCL, Regional Office, Phuentsholing.Post Box No. 138]

1. The *National Housing Development Corporation Limited now* invites sealed Bids from eligible and qualified Bidders for *Supply of Package, Supply of Hardware items (Civil, Electrical, Plumbing, and Tools& Plants) to the NHDCL, Regional Office, Phuentsholing*[1]

2. Bidding will be conducted through the [National] Competitive Bidding procedures specified in the RGoB Procurement Rules and Regulations, and is open to all Bidders from Countries as defined in Section V of the Bidding Documents[2].

3. Interested eligible Bidders may obtain further information from *Store Officer (Needup Dorji) of National Housing Development Corporation Ltd, Regional Office, Phuentsholing* and inspect the Bidding Documents at the address given below *[state the address given at end of this IFB]* from *9:00 Am to 5:00 Pm*[3]

   Address:

4. Qualification requirements include:
   i. The Bidder should have potential/ capacity to supply required goods and services.
   ii. The bidder should have valid trade licence.

5. ***A complete set of Bidding Documents in English may be downloaded by interested Bidders from the purchaser's website www.nhdcl.bt. The bidder shall notify the participation in bidding through Email (needup.dorji@nhdcl.bt).***

6. Bids must be delivered to the address below at or before ***12:30 Pm on 19th December 2022.*** Electronic bidding ***"shall not"*** be permitted. Late Bids will be rejected. Bids will be opened physically in the presence of the Bidders' representatives who choose to attend in person or on-line at the address below at ***2:30 Pm on 19th December 2022.***

7. All Bids shall be accompanied by a Bid Security of ***Nu. 50,000 (Fifty Thousand only)***

8. The address(es) referred to above is (are):
   [NHDCL Regional Office, Phuentsholing: Bhutan
   Post Box No. 138, Samdrup Lam, Contact us @ 05-251182
   Store Officer: Needup Dorji (Contact No. 17765331).

1 A brief description of the type(s) of Goods should be provided, including quantities, location of Project, required delivery period and other information necessary to enable potential Bidders to decide whether or not to respond to the Invitation. The Bidding Documents may require Bidders to have specific experience or capabilities; such requirements should also be included in this paragraph,

2 Occasionally, contracts may be financed out of special funds that would restrict eligibility to a particular group of countries. When this is the case, it should be mentioned in this paragraph

3 For example, 9.00 AM to 5.00 PM.

4 The fee should defray printing and delivery costs; it should not be so high as to deter competition.

5 For example, cashier's check, direct deposit to specified account number, etc

Bidding Documents for

Package –I, Supply of Hardware items (Civil, Electrical, Plumbing, and Tools& Plants) to the NHDCL, Regional Office, Phuentsholing.

STANDARD BIDDING DOCUMENTS

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PART 1

BIDDING PROCEDURES

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A. GENERAL

1. Scope of Bid and Source of Funds

1.1. The Purchaser, as indicated in the Bid Data Sheet (BDS), issues these Bidding Documents for the supply of Goods and Related Services incidental thereto as specified in Section VI, Schedule of Supply. The name, identification number, and number of lots within this procurement are provided in the BDS

1.2. Throughout these Bidding Documents:

(a) the term "in writing" means communicated in written form (eg by mail, electronic mail, fax, telex) with proof of receipt;

(b) if the context so requires, "singular" means plural" and vice versa; and

(c) "day" means calendar day.

1.3. The Employer as defined in section II, Bidding Data Sheet (BDS) has received a budget from RGoB towards the cost of the Goods defined in the BDS and intends to apply a part of the funds to cover eligible payments under this contract.

2. Fraud and Corruption

2.1. It is RGoB policy to require that Purchasers, Bidders, Suppliers, Contractors and their Subcontractors observe the highest standards of ethics during the procurement and execution of contracts.[8] In pursuance of this policy, the RGoB:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) "Corrupt practice"[9] is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value[10] to influence improperly the actions of another party;

(ii) "Fraudulent practice"[11] is any intentional act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

8 In this context, any action taken by a Bidder, Supplier, Contractor or a Subcontractor to influence the procurement process or contract execution for undue advantage is improper.

9 "another party" refers to a public official acting in relation to the procurement process or contract execution. In this context, "public official" includes staff and employees of any organizations (including any institutions providing finance for the Goods) taking or reviewing procurement decisions.

10 "anything of value" includes, but is not limited to, any gift, loan, fee, commission, valuable security or other asset or interest in an asset; any office, employment or contract; any payment, discharge or liquidation of any loan, obligation or other liability whatsoever, whether in whole or in part; any other services, favour or advantage, including protection from any penalty or disability incurred or apprehended or from any action or proceeding of a disciplinary or penal nature, whether or not already instituted and including the exercise or the forbearance from the exercise of any right or any official power or duty.

11 a "party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.

(iii) "Collusive practice"[12] is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

(iv) "Coercive practice"[13] is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

(v) "Obstructive practice" is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order materially to impede any investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(bb) acts intended materially to impede the exercise of the inspection and audit rights of the Purchaser or any organization or person appointed by the Purchaser and/or any relevant RGoB agency provided for under ITB Sub-Clause 2.1 (d) below.

(b) will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;

(c) will sanction a firm or individual, including declaring them ineligible, either indefinitely or for a stated period of time, to be awarded an RGoB-financed contract if it at any time determines that they have, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, an RGoB-financed contract;

(d) will have the right to require that a provision be included in Bidding Documents and in contracts financed by the RGoB, requiring Bidders, Suppliers, Contractors and their Subcontractors to permit the Purchaser, any organization or person appointed by the Purchaser and/or any relevant RGoB agency to inspect their accounts and records and other documents relating to their Bid submission and contract performance and to have them audited by auditors appointed by the Purchaser;

12 "parties" refers to participants in the procurement process (including public officials) and an "improper purpose" includes attempting to establish bid prices at artificial, non competitive levels.

13 a "party" refers to a participant in the procurement process or contract execution.

(e) requires that Bidders, as a condition of admission to eligibility, execute and attach to their bids an Integrity Pact Statement in the form provided in Section IV, Bidding Forms as specified in the BDS. Failure to provide a duly executed Integrity Pact Statement may result in disqualification of the Bid; and

(f) will report any case of corrupt, fraudulent, collusive, coercive or obstructive practice to the relevant RGoB agencies, including but not limited to the Anti-corruption Commission (ACC) of Bhutan, for necessary action in accordance with the statutes and provisions of the relevant agency.

2.2. Furthermore, Bidders shall be aware of the provision stated in Sub-Clause 36.1 (a) (iii) of the General Conditions of Contract.

3. Eligible Bidders

3.1. A Bidder, and all parties constituting the Bidder, may have the nationality of any country, subject to the restrictions specified in Section V, Eligible Countries and any specific category of trade license if so specified in the BDS. A Bidder shall be deemed to have the nationality of a country if the Bidder is a citizen or is constituted, incorporated, or registered and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including Related Services.

3.2. A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. Bidders may be considered to have a conflict of interest with one or more parties in this bidding process if they:

(a) are associated, or have been associated in the past, with a firm or any of its affiliates which has been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications and/or other documents to be used for the procurement of the Goods to be purchased pursuant to these Bidding Documents, or

(b) submit more than one Bid in this bidding process, except for alternative offers permitted under ITB Clause 17. However, this does not limit the participation of subcontractors in more than one Bid.

(c) employ or otherwise engage, either directly or through any of their affiliates, a spouse, dependent or close relative of a public servant of the RGoB who either is employed by the Purchaser or has an authority over it. For the purposes of this Sub-Clause a close relative is defined as immediate family which includes father, mother, brother, sister, spouse and own children.

(d) they have at least one controlling partner in common;

(e) they receive or have received any direct or indirect subsidy from either party;

(f) they have the same authorized legal representative for purposes of this Bid;

(g) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Employer regarding this bidding process;

3.3. Government-owned enterprises in Bhutan shall be eligible only if they can establish that they (i) are legally and financially autonomous, (ii) operate under commercial law, and (iii) are not a dependent agency (directly or indirectly) of the Purchaser.

3.4. A Bidder that is under a declaration of ineligibility pursuant to ITB Sub-Clause 2.1 (c) shall not be eligible to participate in this bidding process in any capacity.

3.5. Bidders shall provide such evidence of their continued eligibility satisfactory to the Purchaser as the Purchaser shall reasonably request.

4. Exclusion of Bidders

4.1. A Bidder shall be excluded from participating in this bidding process under the following circumstances:

(a) as a matter of law or official regulation, RGoB prohibits commercial relations with the country in which the Bidder is constituted, incorporated or registered; or

(b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, RGoB prohibits (i) any import of Goods or contracting of Services from the country in which the Bidder is constituted, incorporated or registered or (ii) any payments to persons or entities in that country; or

(c) he is insolvent or is in receivership or is a bankrupt or is in the process of being wound up; or has entered into an arrangement with creditors; or

(d) his business affairs are being administered by a court, judicial officer or appointed liquidator; or

(e) he has suspended business or is in any analogous situation arising from similar procedures under the laws and regulations of his country of establishment; or

(f) he has been found guilty of professional misconduct by a recognized tribunal or professional body; or

(g) he has not fulfilled his obligations with regard to the payment of taxes, social security or other payments due in accordance with the laws of the country in which he is established or of the Kingdom of Bhutan; or

(h) he is guilty of serious misrepresentation in supplying information in his tender; or

(i) he has been convicted for fraud and/or corruption by a competent authority; or

(j) he has not fulfilled any of his contractual obligations with the Purchaser in the past.

(k) he has been debarred from participation in public procurement by any competent authority as per law.

5. Eligible Goods and Related Services

5.1. All the Goods and Related Services to be supplied under the Contract may have their origin in any country in accordance with Section V, Eligible Countries and if so required shall comply with requirements specified in the **BDS.**

5.2. For the purposes of this Clause, the term "Goods" includes commodities, raw material, machinery, equipment and industrial plants; and "Related Services" includes services such as insurance, installation, training, and initial maintenance.

5.3. The term "origin" means the country where the Goods have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

B. CONTENTS OF BIDDING DOCUMENTS

6. Parts of Bidding Documents

6.1. The Bidding Documents consist of Parts 1, 2 and 3, which include all the Sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITB Clause 9.

PART 1 Bidding Procedures

- Section I. Instructions to Bidders (ITB)
- Section II. Bid Data Sheet (BDS)
- Section III. Evaluation and Qualification Criteria
- Section IV. Bidding Forms
- Section V. Eligible Countries

PART 2 Supply Requirements

- Section VI. Schedule of Supply

PART 3 Contract

- Section VII. General Conditions of Contract (GCC)
- Section VIII. Special Conditions of Contract (SCC)
- Section IX. Contract Forms

7. General Information

7.1. The Invitation for Bids issued by the Purchaser is not part of the Bidding Documents.

7.2. The Purchaser is not responsible for the completeness of the Bidding Documents and their addenda, if any, if these were not obtained directly from the Purchaser.

7.3. The Bidder is expected to examine all instructions, forms, terms and specifications in the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Documents may result in the rejection of the Bid.

8. Clarification of Bidding Documents

8.1. Bidders shall not be allowed to seek any clarification of the Bidding Documents in person or by telephone or other verbal means.

8.2. A prospective Bidder requiring any clarification of the Bidding Documents shall notify the same to the Purchaser in writing at the Purchaser's address specified in the BDS;

8.3. The Purchaser shall respond in writing to any such request for clarification, provided that it is received no later than fifteen (15) days prior to the deadline for submission of Bids. Copies of the Purchaser's response shall be forwarded to all those who have acquired the Bidding Documents directly from the Purchaser, including a description of the enquiry without disclosing the name of the Bidder(s) seeking clarification. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB Clause 9 and ITB Sub-Clause 29.2; and

8.4. A pre-bid meeting shall be conducted only if strictly necessary to clarify doubts and concerns of the Bidders prior to submission of Bids. Minutes of the pre-bid meeting shall be circulated to all Bidders that have purchased Bidding Documents.

9. Amendment of Bidding Documents

9.1. At any time prior to the deadline for submission of Bids the Purchaser may amend the Bidding Documents by issuing an addendum. This may be done either on the Purchaser's own initiative or in response to a clarification request from a prospective Bidder.

9.2. Any addendum thus issued shall be part of the Bidding Documents and shall be communicated in writing to all who have obtained the Bidding Documents directly from the Purchaser. Such addendum shall be binding on the prospective Bidders, and shall require that prospective Bidders confirm receipt of it before the time established for the opening of Bids;

9.3. The Purchaser may, at its discretion, extend the deadline for submission of Bids pursuant to ITB Sub-Clause 29.2 to allow prospective Bidders reasonable time in which to take the addendum into account in preparation of their Bids.

C. QUALIFICATION CRITERIA

10. Financial Capacity

10.1. The bidder shall have the minimum level of financial capacity if so specified in the BDS to qualify for supply of goods and related services under the contract.

11. Experience and technical capacity

11.1. The bidder shall have the following minimum level of experience to qualify for supply of goods and related services under the contract:

(a) the minimum number of years of experience in the supply of goods and related services if so specified in the BDS;

(b) specific experience in the supply of similar goods and related services if so specified in the BDS; and

(c) minimum production capacity or availability of the equipments if so specified in the BDS.

D. PREPARATION OF BIDS

12. Cost of Bidding

12.1. The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.

13. Language of Bid

13.1. The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Purchaser, shall be written in the language specified in the BDS. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the BDS, in which case, for the purposes of interpretation of the Bid, such translation shall govern.

14. Documents Comprising the Bid

14.1. The Bid shall comprise the following:

(a) Bid Submission Sheet and the applicable Price Schedules in accordance with ITB Clauses 15, 16, 18 and 20;

(b) Bid Security, in accordance with ITB Clause 26;

(c) Written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB Clause 27;

(d) Documentary evidence in accordance with ITB Clause 21 establishing the Bidder's eligibility to bid;

(e) Documentary evidence in accordance with ITB Clause 22 that the Goods and Related Services to be supplied by the Bidder are of eligible origin;

(f) Documentary evidence in accordance with ITB Clauses 23 and 35 that the Goods and Related Services conform to the Bidding Documents;

(g) Documentary evidence in accordance with ITB Clause 24 establishing the Bidder's qualifications to perform the contract if its Bid is accepted;

(h) Alternative Bids, if permissible, in accordance with ITB Clause 17;

(i) Documentary evidence or certified statements that the Bidder is not in any of the exclusion categories stipulated in ITB Sub-Clause 4.1;

(j) Integrity Pact Statement, in accordance with ITB Sub-Clause 2.1 (e) as specified in BDS; and

(k) Any other document required in the BDS.

14.2. In addition to the requirements under ITB 14.1, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all members and submitted with the Bid, together with a copy of the proposed Agreement.

15. Bid Submission Sheet

15.1. The Bidder shall submit the Bid Submission Sheet using the form furnished in Section IV, Bidding Forms. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.

16. Price Schedules

16.1. The Bidder shall submit the Price Schedules for Goods and Related Services, according to their origin as appropriate, using the forms furnished in Section IV, Bidding Forms.

17. Alternative Bids

17.1. Unless otherwise indicated in the BDS alternative Bids shall not be considered.

18. Bid Prices and Discounts

18.1. The prices and discounts quoted by the Bidder in the Bid Submission Sheet and in the Price Schedules shall conform to the requirements specified below.

18.2. All lots and items in the Schedule of Supply must be listed and priced separately in the Price Schedules.

18.3. The price to be quoted in the Bid Submission Sheet shall be the total price of the Bid excluding any discounts offered.

18.4. The Bidder shall quote any unconditional discounts and the methodology for their application in the Bid Submission Sheet.

18.5. The terms EXW, CIF, CIP and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by the International Chamber of Commerce as specified in the BDS.

18.6. Unless otherwise stated in the BDS, Prices shall be quoted inclusive of all applicable taxes and levies, insurance, transportation, handling costs and any other associated cost to fulfil the contractual obligations, as specified in the Price Schedule forms for Goods and related services included in Section IV Bidding Forms. However, to avail margin of preference, prices shall be quoted as specified in the Price Schedule for Goods Manufactured in Bhutan in section IV Bidding Forms.. The disaggregation of price components shall be solely for the purpose of facilitating the comparison of Bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. In quoting prices the Bidder shall be free to use transportation through carriers registered in any eligible country, in accordance with Section V, Eligible Countries. Similarly, the Bidder may obtain insurance services from any eligible country in accordance with Section V, Eligible Countries. Prices shall be entered in the following manner:

(a) For goods manufactured in Bhutan:

(i) the price of the Goods quoted EXW (ex works, ex factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all Customs duties and sales and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the Goods;

(ii) any Bhutan sales and other taxes which will be payable on the Goods if the contract is awarded to the Bidder; and

(iii) the price for inland transportation, insurance and other local services required to deliver the Goods to their final destination (Project Site) specified in the BDS.

(b) For Goods manufactured outside the Purchaser's Country, to be imported:

(i) the price of the Goods, quoted CIP named place of destination, in the Purchaser's Country, as specified in the BDS;

(ii) the price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination (Project Site) specified in the BDS;

(c) For Goods manufactured outside the Purchaser's Country, already imported:

(i) the price of the Goods, including the original import value of the Goods; plus any mark-up (or rebate); plus any other related local cost, and custom duties and other import taxes already paid or to be paid on the Goods already imported;

(ii) the custom duties and other import taxes already paid (need to be supported with documentary evidence) or to be paid on the Goods already imported;

(iii) the price of the Goods, obtained as the difference between (i) and (ii) above;

(iv) any Purchaser's Country sales and other taxes which will be payable on the Goods if the Contract is awarded to the Bidder; and

(v) the price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination (Project Site) specified **in the BDS.**

(d) for Related Services, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Supply, the price of each item comprising the Related Services (inclusive of any applicable taxes).

18.7. If so indicated in ITB Sub-Clause 1.1, Bids are being invited for individual items, lots or packages. Unless otherwise indicated in the BDS, prices quoted shall correspond to one hundred percent (100%) of the items specified for each lot and to one hundred percent (100%) of the quantities for each item of a lot. Bidders wishing to offer any price reduction (discount) for the award of more than one Contract shall specify in their Bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Price reductions or discounts shall be submitted in accordance with ITB Sub-Clause 18.4, provided the Bids for all lots are submitted and opened at the same time.

19. Price Variation

19.1. Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, unless otherwise specified in the BDS. A Bid submitted with an adjustable price quotation shall be treated as non-responsive and shall be rejected pursuant to ITB Clause 35 unless adjustable price quotations are permitted by the BDS. If, in accordance with the BDS, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a Bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.

20. Currencies of Bid

20.1. The unit rates and prices shall be quoted by the Bidder entirely in Ngultrum (Nu). Foreign currency requirements shall be indicated and shall be payable at the option of the Bidder in up to three foreign currencies. In case of International procurement, bidders may express the unit rates and prices in fully convertible currency. If the bidders wish to be paid in a combination of amounts in different currencies, it may quote its price accordingly up to three foreign currencies.

20.2. The rates of exchange to be used in arriving at the local currency equivalent shall be the selling rates for similar transactions established by RMA on the day of bid opening. These exchange rates shall apply for all payments so that no exchange risk shall be borne by the Bidder.

20.3. Bids shall be evaluated as quoted in Ngultrum (NU) in accordance with ITB Sub-Clause 20.1, unless a Bidder has used different exchange rates than those prescribed in ITB Sub-Clause 20.2, in which case the Bid shall be first converted into the amounts payable in different currencies using the rates quoted in the Bid and then reconverted to Ngultrum (NU) using the exchange rates prescribed in ITB Sub-Clause 20.2.

20.4. Bidders shall indicate details of their expected foreign currency requirements in the Bid.

20.5. Bidders may be required by the Employer to clarify their foreign currency requirements and to substantiate that the amounts included in the rates and prices if required in the BDS, are reasonable and responsive to ITB Sub-Clause 20.1.

20.6. In case of International Procurement from countries other than India, the procuring agency may invite bid sin convertible currencies. The bids shall however, be evaluated in accordance with Sub-Clause 20.3 above, but the payment shall be made in the currency of bid.

21. Documents Establishing the Eligibility of the Bidder

21.1. To establish their eligibility in accordance with ITB Clause 3, Bidders shall complete the Bid Submission Sheet included in Section IV, Bidding Forms.

22. Documents Establishing the Eligibility of the Goods and Related Services

22.1. To establish the eligibility of the Goods and Related Services in accordance with ITB Clause 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms included in Section IV, Bidding Forms.

23. Documents Establishing the Conformity of the Goods and Related Services

23.1. To establish the conformity of the Goods and Related Services to the Bidding Documents, the Bidder shall furnish as part of its Bid documentary evidence that the Goods conform to the technical specifications and standards specified in Section VI, Schedule of Supply.

23.2. The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specifications and, if applicable, a statement of deviations and exceptions to the provisions of the Schedule of Supply.

23.3. The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period specified in the BDS following commencement of the use of the Goods by the Purchaser.

23.4. Standards for workmanship, process, material and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Schedule of Supply, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names and/or catalogue numbers, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure equivalence or are superior to those specified in the Schedule of Supply.

24. Documents Establishing the Qualifications of the Bidder

24.1. The documentary evidence of the Bidder's qualifications to perform the contract if its Bid is accepted shall establish to the Purchaser's satisfaction:

(a) that, if required by the BDS, a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in Bhutan;

(b) that, if required in the BDS, in the case of a Bidder not doing business within Bhutan, the Bidder is or will be (if awarded the Contract) represented by an agent in Bhutan equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications;

(c) that Bids submitted by a Joint Venture, Consortium or Association (JV/C/A) of two or more firms as partners comply with the following requirements:

(i) the Bid is signed so as to be legally binding on all partners;

(ii) all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;

(iii) one of the partners is nominated as being in charge, authorized to incur liabilities, and to receive instructions for and on behalf of any and all partners of the JV/C/A;

(iv) the execution of the entire Contract, including payment, shall be done exclusively with the partner in charge; and

(v) a copy of the JV/C/A Agreement entered into by the partners is submitted with the Bid; or a Letter of Intent to execute a JV/C/A Agreement in the event of a successful Bid is signed by all partners and submitted with the Bid, together with a copy of the proposed Agreement.

(d) that the Bidder meets each of the qualification criteria specified in Section III, Evaluation and Qualification Criteria.

25. Period of Validity of Bids

25.1. Bids shall remain valid for the period specified in the BDS from the Bid submission deadline prescribed by the Purchaser. A Bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.

25.2. In exceptional circumstances, prior to expiry of the Bid validity period, the Purchaser may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. The Bid Security shall also be extended for a corresponding period. A Bidder may refuse the request to extend the validity of its Bid without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its Bid, except as provided in ITB Sub-Clause 25.3

25.3. In the case of fixed price contracts, if the award is delayed by a period exceeding sixty (60) days beyond the expiry of the initial Bid validity, the Contract price shall be adjusted as specified in the request for extension. Bid evaluation shall be based on the Bid Price without taking into consideration the above correction.

26. Bid Security

26.1. The Bidder shall furnish, as part of its Bid, a Bid Security in original form, denominated in Ngultrum or a freely convertible currency and in the amount specified in the BDS.

26.2. The Bid Security shall:

(a) at the Bidder's option, be in any of the following forms:

(i) an Unconditional Bank Guarantee; or

(ii) a Banker's Certified Cheque/Cash Warrant; or

(iii) a Demand Draft;

(b) be issued by a financial institution in Bhutan acceptable to the Purchaser and selected by the Bidder. If the institution issuing the Bid Security is located outside Bhutan it shall have a correspondent financial institution located in Bhutan to make the Bid Security enforceable.

(c) in the case of a bank guarantee, be substantially in accordance with the form of Bid Security included in Section IV, Bidding Forms, or other form approved by the Purchaser prior to Bid submission;

(d) be promptly payable upon written demand by the Purchaser in case any of the conditions listed in ITB Sub-Clause 26.6 are invoked;

(e) be submitted in its original form; copies shall not be accepted;

(f) remain valid for a period of thirty (30) days beyond the end of the validity period of the Bid, as extended, if applicable, in accordance with ITB Sub-Clause 25.2.

26.3. Any Bid not accompanied by a responsive Bid Security shall be rejected by the Purchaser as non-responsive.

26.4. The Bid Securities of unsuccessful Bidders shall be discharged/ returned as promptly as possible upon award of contract, but in any event not later than thirty (30) days after the expiration of the period of bid validity prescribed by the procuring agency and the successful Bidder furnishing the Performance Security pursuant to ITB Clause 51.

26.5. The Bid Security of the successful Bidder shall be returned as promptly as possible after the successful Bidder has signed the Contract and furnished the required Performance Security.

26.6. The Bid Security shall be forfeited:

(a) if a Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Bid Submission Sheet, except as provided in ITB Sub-Clause 25.2; or

(b) if the successful Bidder fails to:

(i) sign the Contract in accordance with ITB Clause 50;

(ii) furnish a Performance Security in accordance with ITB Clause 51; or

(iii) accept the correction of its Bid Price pursuant to ITB Sub-Clause 36.4

26.7. The Bid Security of a JV/C/A must be in the name of the JV/C/A that submits the Bid. If the JV/C/A has not been legally constituted at the time of bidding the Bid Security shall be in the names of all future partners as named in the letter of intent.

27. Format and Signing of Bid

27.1. The Bidder shall prepare ONE Original of the documents comprising the Bid as described in ITB Clause 14 and clearly mark it "ORIGINAL." In addition, the Bidder shall submit copies of the Bid, in the number specified in the BDS, and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.

27.2. The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder.

27.3. Any interlineations, erasures or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

E. SUBMISSION AND OPENING OF BIDS

28. Submission, Sealing and Marking of Bids

28.1. Bids shall be delivered by hand, courier or registered post. The Bidder shall seal the original Bid and the number of copies stipulated in the BDS, including alternative Bids if permitted in accordance with ITB Clause 17, in separate inner envelopes contained within one outer envelope. All envelopes shall be sealed with adhesive or other sealant to prevent reopening.

28.2. The inner envelopes shall:

(a) be signed across their seals by the person authorized to sign the Bid on behalf of the Bidder; and

(b) be marked "ORIGINAL", "ALTERNATIVE" (if any) and "COPIES";

28.3. The outer envelope shall:

(a) be marked "Confidential";

(b) be addressed to the Purchaser at the address[14] provided in the BDS;

(c) bear the name and identification number of the Contract as defined in the BDS; and

(d) provide a warning not to open before the specified time and date for Bid Opening as defined in the BDS.

28.4. In addition to the identification required in ITB Sub-Clause 28.2, the inner envelopes shall indicate the name and address of the Bidder, to enable the Bid to be returned unopened in case it is declared late pursuant to ITB Clause 30.

28.5. If the outer envelope is not sealed and marked as above, the Purchaser shall assume no responsibility for the misplacement or premature opening of the Bid.

28.6. In the Two-Stage Process, Bidders shall be advised to submit only the technical proposal in the first stage. In the second stage, Bidders shall be requested to submit both their technical proposals as modified and agreed with the Purchaser and the financial proposals based on the modified technical proposal simultaneously in two separate sealed envelopes.

28.7. When so specified in the BDS Bidders shall have the option of submitting their Bids electronically. Bidders submitting Bids electronically shall follow the procedures specified in the BDS.

14 The receiving address shall be an office that is staffed during normal working hours by personnel authorized to certify time and date of receipt and assure safe-keeping until Bid opening. A post office address is not to be used. The address must be the same as the receiving address described in the Invitation for Bids.

29. Deadline for Submission of Bids

29.1. Bids shall be delivered by hand, courier or registered post to the Purchaser at the address and no later than the date and time indicated in the BDS.

29.2. The Purchaser may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with ITB Clause 9, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

30. Late Bids

30.1. The Purchaser shall not consider any Bid that is submitted after the deadline for submission of Bids. Any Bid received by the Purchaser after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.

31. Withdrawal, Substitution and Modification of Bids

31.1. A Bidder may withdraw, substitute or modify its Bid after it has been submitted by sending a written notice in accordance with ITB Clause 28, duly signed by an authorized representative, and shall include a copy of the authorization (the power of attorney) in accordance with ITB Sub-Clause 27.2, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Bid must accompany the respective written notice. All notices must be:

(a) submitted in accordance with ITB Clauses 27 and 28 (except that withdrawal notices do not require copies) and, in addition, the respective envelopes shall be clearly marked "**Withdrawal**", "**Substitution**" or "**Modification**;" and

(b) received by the Purchaser prior to the deadline prescribed for submission of Bids, in accordance with ITB Clause 29.

31.2. Bids requested to be withdrawn in accordance with ITB Sub-Clause 31.1 shall be returned unopened to the Bidders.

31.3. No Bid may be withdrawn, substituted or modified in the interval between the deadline for submission of Bids and the expiry of the period of Bid validity specified by the Bidder on the Bid Submission Sheet or any extension thereof.

31.4. Withdrawal of a bid between the deadline for submission of bids and expiration of the period of bid validity specified in the BDS or as extended pursuant to Clause 25.1, may result in the forfeiture of the Bid Security pursuant to Clause 26.6. If the lowest or the lowest evaluated bidder withdraws his bid between the periods specified in this clause, the bid security of the bidder shall be forfeited and in addition, the bidder shall pay to the employer the positive difference of sum, if any, with the next lowest bidder within fourteen (14) days of his withdrawal. If the bidder fails to pay the difference within the said date, the bidder shall be debarred by a competent authority as per law. In the case of framework contracts, the bid security shall be forfeited and the supply of the particular item will be re-tendered.

32. Bid Opening

32.1. The Purchaser shall conduct the Bid Opening in public, in the presence of Bidders` designated representatives who choose to attend, and at the address, date and time specified in the BDS. Any specific electronic Bid Opening procedures required if electronic bidding is permitted in accordance with ITB Sub-Clause 28.7 shall be as specified in the BDS.

32.2. Bidders, their representatives and other attendees at the Bid Opening shall not be permitted to approach any members of the Bid Opening Committee or any RGoB officials.

32.3. First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding Bid shall not be opened, but shall be returned to the Bidder. No Bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Bid Opening. Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Bid being substituted. The substituted Bid shall not be opened, but shall be returned to the Bidder. No Bid substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Bid Opening. Envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Bid Opening. Only envelopes that are opened and read out at Bid Opening shall be considered further.

32.4. All other envelopes shall be opened one at a time. The Bidders' names, the Bid prices, the total amount (or lot-wise) of each Bid and of any alternative Bid (if alternatives have been requested or permitted), any discounts, Bid withdrawals, substitutions or modifications, the presence or absence of Bid Security, responses to any Bidding Documents addenda, and such other details as the Purchaser may consider appropriate shall be announced by the Purchaser at the Bid Opening. This information also shall be written on a notice board for the public to copy. Any Bid price, discount or alternative Bid price not announced and recorded shall not be taken into account in Bid evaluation. No Bid shall be rejected at Bid Opening except for late Bids pursuant to ITB Clause 30. Substitution Bids and modifications submitted pursuant to ITB Clause 31 that are not opened and read out at Bid Opening shall not be considered for further evaluation regardless of the circumstances. Late, withdrawn and substituted Bids shall be returned unopened to Bidders.

32.5. The Purchaser shall prepare a record of the Bid Opening, which shall include the information disclosed to those present in accordance with ITB Sub-Clause 32.4. The minutes shall include, as a minimum:

(a) the Contract title and reference number;

(b) the Bid number;

(c) the Bid deadline date and time;

(d) the date, time and place of Bid Opening;

(e) Bid prices, per lot if applicable, offered by the Bidders, including any discounts and alternative offers;

(f) the presence or absence of Bid Security and, if present, its amount;

(g) the name and nationality of each Bidder, and whether there is a withdrawal, substitution or modification;

(h) the names of attendees at the Bid Opening, and of the Bidders they represent (if any);

(i) details of any complaints or other comments made by attendees/ representatives attending the Bid Opening, including the names and signatures of the attendees/representatives making the complaint(s) and/or comment(s); and

(j) the names, designations and signatures of the members of the Bid Opening Committee.

32.6. The Bidders' representatives and attendees who are present shall be requested to sign the record. The omission of a Bidder's or other attendee's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.

F. EVALUATION AND COMPARISON OF BIDS

33. Confidentiality

33.1. Information relating to the examination, evaluation, comparison and qualification of Bids, and recommendation of Contract Award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until publication of the Contract Award.

33.2. Any effort by a Bidder to influence the Purchaser in the examination, evaluation, comparison and qualification of the Bids or Contract Award decisions may result in the rejection of its Bid.

33.3. Notwithstanding ITB Sub-Clause 33.2, from the time of Bid Opening to the time of Contract Award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it should do so in writing.

34. Clarification of Bids

34.1. To assist in the examination, evaluation, comparison and qualification of the Bids, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change in the prices or substance of the Bid shall be sought, offered or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the evaluation of the Bids, in accordance with ITB Clause 36.

35. Responsiveness of Bids

35.1. The Purchaser's determination of a Bid's responsiveness shall be based on the contents of the Bid itself, and is to determine which of the Bids received are responsive and thereafter to compare the responsive Bids against each other to select the lowest evaluated Bid.

35.2. A substantially responsive Bid is one that conforms to all the terms, conditions and specifications of the Bidding Documents without material deviation, reservation or omission. A material deviation, reservation or omission is one that:

(a) affects in any substantial way the scope, quality or performance of the Goods or Related Services required; or

(b) limits in any substantial way inconsistent with the Bidding Documents, the Purchaser's rights or the Bidder's obligations under the Contract; or

(c) if rectified would affect unfairly the competitive position of other Bidders presenting responsive Bids

35.3. If a Bid is not substantially responsive to the Bidding Documents it shall be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation or omission.

36. Non-conformities, Errors and Omissions

36.1. Provided that a Bid is substantially responsive, the Purchaser may waive any non-conformities or omissions in the Bid that do not constitute a material deviation.

36.2. Provided that a Bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify non-material non-conformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

36.3. Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:

(a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;

(b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

(c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to ITB Sub-Clauses 36.3 (a) and (b) above.

36.4. If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited.

37. Preliminary Examination of Bids

37.1. The Purchaser shall examine the Bids to confirm that all documents and technical documentation requested in ITB Clause 14 have been provided, and to determine the completeness of each document submitted.

37.2. The Purchaser shall confirm that the following documents and information have been provided in the Bid. If any of these documents or information is missing, the offer shall be rejected.

(a) Bid Submission Sheet, in accordance with ITB Sub-Clause 14.1 (a);

(b) Price Schedules, in accordance with ITB Sub-Clause 14.1 (a);

(c) Bid Security, in accordance with ITB Clause 26.

38. Examination of Terms and Conditions; Technical Evaluation

38.1. The Purchaser shall examine the Bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.

38.2. The Purchaser shall evaluate the technical aspects of the Bid submitted in accordance with ITB Clause 23, to confirm that all requirements specified in Section VI, Schedule of Supply of the Bidding Documents have been met without any material deviation or reservation.

38.3. If, after the examination of the terms and conditions and the technical evaluation, the Purchaser determines that the Bid is not substantially responsive in accordance with ITB Clause 35, the bid shall not be considered for evaluation.

39. Conversion to Single Currency

39.1. For evaluation and comparison purposes, the Purchaser shall convert all Bid prices expressed in amounts in various currencies into a single currency and using the exchange rates specified in the BDS.

40. Margin of Preference

40.1. A margin of preference may apply to domestic goods manufactured in Bhutan as provided for in the BDS. To avail a margin of preference, the bidder shall provide a value addition certificate from the Ministry of Economic Affairs.

41. Evaluation of Bids

41.1. The Purchaser shall evaluate each Bid that has been determined, up to this stage of the evaluation, to be substantially responsive.

41.2. To evaluate a Bid, the Purchaser shall only use all the factors, methodologies and criteria defined in this ITB Clause 41. No other criteria or methodology shall be permitted.

41.3. To evaluate a Bid, the Purchaser shall consider the following:

(a) evaluation shall be done for Items or Lots, as specified in the BDS;

(b) the Bid Price, as quoted in accordance with ITB Clause 18;

(c) price adjustment for correction of arithmetic errors in accordance with ITB Clause 36.3;

(d) price adjustment due to discounts offered in accordance with ITB Clause 18.4;

(e) adjustments due to the application of the evaluation criteria specified in the BDS from amongst those set out in Section III, Evaluation and Qualification Criteria; and

(f) adjustments due to the application of a margin of preference, in accordance with ITB Clause 40, if applicable.

41.4. The Purchaser's evaluation of a Bid shall exclude and not take into account:

(a) in the case of Goods manufactured in Bhutan, sales and other similar taxes which will be payable on the Goods if the Contract is awarded to the Bidder;

(b) in the case of Goods manufactured outside Bhutan, already imported or to be imported, Customs duties and other import taxes levied on the imported Goods, sales and other similar taxes which will be payable on the Goods if the Contract is awarded to the Bidder; and

(c) any allowance for price adjustment during the period of execution of the Contract, if provided in the Bid.

41.5. The Purchaser's evaluation of a Bid may require the consideration of other factors in addition to the Bid Price quoted in accordance with ITB Clause 18. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of Bids, unless otherwise specified in Section III, Evaluation and Qualification Criteria. The factors, criteria and the methodology of application shall be as specified in ITB Sub-Clause 41.3 (e).

41.6. If so specified in the BDS, these Bidding Documents shall allow Bidders to quote separate prices for one or more lots, and shall allow the Purchaser to award one or multiple lots to more than one Bidder. The methodology of evaluation to determine the lowest evaluated lot combinations is specified in Section III, Evaluation and Qualification Criteria.

41.7. The purchaser shall ensure that the lowest evaluated bid price is consistent and reasonable with the current market prices. If the prices are unreasonable compared to prevailing market prices purchaser may reject the bid.

42. Comparison of Bids

42.1. The Purchaser shall compare the evaluated costs of all substantially responsive Bids established in accordance with ITB 41 to determine the Bid that has the lowest evaluated cost. The comparison shall be on the basis of CIP (place of final destination) prices for imported goods and EXW prices, plus cost of inland transportation and insurance to place of destination, for goods manufactured within the purchser's country, together with prices for any required installation, training, commissioning and other services. The evaluation of prices shall not take into account custom duties and other taxes levied on imported goods quoted CIP and sales and similar taxes levied in connection with the sale or delivery of goods.

43. Abnormally Low Bid

43.1. An Abnormally Low Bid is one where the Bid price, in combination with other constituent elements of the Bid, appears unreasonably low to the extent that the Bid price raises material concerns with the Purchaser as to the capability of the Bidder to perform the Contract for the offered Bid price.

43.2. In the event of identification of a potentially Abnormally Low Bid, the Purchaser shall seek written clarification from the Bidder, including a detailed price analyses of its Bid price in relation to the subject matter of the contract, scope, delivery schedule, allocation of risks and responsibilities and any other requirements of the bidding document.

43.3. After evaluation of the price analyses, in the event that the Purchaser determines that the Bidder has failed to demonstrate its capability to perform the contract for the offered Bid price, the Purchaser shall reject the Bid.

44. Seriously unbalanced Bids

44.1. If the Bid that is evaluated as the lowest evaluated cost is, in the Employer's opinion, seriously unbalanced the Employer may require the Bidder to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the Bid prices with the scope of works, proposed methodology, schedule and any other requirements of the bidding document.

44.2. After the evaluation of the information and detailed price analyses presented by the Bidder, the Employer may as appropriate:

(a) accept the Bid and require that the amount of the Performance Security be increased at the expense of the Bidder to a level not exceeding twenty percent (20%) of the initial Contract price in addition to ten percentage(10) of the Performance Security.***;*** or

(b) reject the Bid.

45. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids

45.1. The Purchaser reserves the right to accept or reject any Bid, and to annul the bidding process and reject all Bids at any time prior to Contract award, without thereby incurring any liability to Bidders.

G. AWARD OF CONTRACT

46. Award Criteria

46.1. The Purchaser shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated Bid and is substantially responsive to the Bidding Documents.

47. Purchaser's Right to Vary Quantities at Time of Award

47.1. At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section VI, Schedule of Supply, provided this does not exceed the percentages indicated in the BDS, and without any change in the unit prices or other terms and conditions of the Bid and the Bidding Documents.

48. Letter of Intent to Award the Contract/Letter of Acceptance

48.1. The Employer shall notify the concerned Bidder whose bid has been selected in accordance with ITB 46 in writing (in the format in section IV-hereafter called the letter of Intent to award the contract) that the Employer has intention to accept its bid and the information regarding the name, address and amount of selected bidder shall be given to all other bidders who submitted the bid. Such notification should be communicated in writing, including by cable, facsimile, telex or electronic mail to all the bidders on the same day of dispatch. The Employer shall ensure that the same information is uploaded on their website on the same day of dispatch.

48.2. If no bidder submits an application pursuant to ITB 52 within a period of ten (10) days of the notice provided under ITB 48.1, prior to expiry of the period of Bid validity, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted.

48.3. Until a formal Contract is prepared and executed, the letter of acceptance shall constitute a binding Contract.

48.4. Upon the successful Bidder furnishing the signed Contract Form and the Performance Security pursuant to ITB Clause 51 the Purchaser:

(a) shall promptly notify each unsuccessful Bidder and discharge its Bid Security, pursuant to ITB Sub-Clause 26.4; and

(b) publish a notification of award on the Purchaser's website.

48.5. The notifications to all unsuccessful Bidders and the notification posted on the Purchaser's website shall include the following information:

(a) the Bid and lot numbers;

(b) name of the winning Bidder, and the price it offered, as well as the duration and summary scope of the Contract awarded; and

(c) the date of the award decision.

49. Debriefing by the Employer

49.1. On receipt of the Employer's Notification of Intention to Award referred to in ITB 48, an unsuccessful Bidder has three (3) working Days to make a written request to the Employer for a debriefing. The Employer shall provide a debriefing to all unsuccessful Bidders whose request is received within this deadline.

49.2. Where a request for debriefing is received within the deadline, the Employer shall provide a debriefing within five (5) working days.

49.3. The Procuring Agency shall discuss only such Bid and not the bids of other competitors. The debriefing shall not include:

(a) point-by-point comparisons with another Bid; and

(b) information that is confidential or commercially sensitive to other Bidders.

49.4. The purpose of debriefing is to inform the aggrieved bidder of the reasons for lack of success, pointing out the specific shortcomings in its bid without disclosing contents of other bids

50. Signing of Contract

50.1. At the same time as notifying the successful Bidder in writing that its Bid has been accepted the Purchaser shall send the successful Bidder the Contract Agreement and the Special Conditions of Contract.

50.2. Within fifteen (15) days of receipt of the Contract Agreement the successful Bidder shall sign, date and return it to the Purchaser.

50.3. Notwithstanding ITB Sub-Clause 50 above, in case signing of the Contract Agreement is prevented by any export restrictions attributable to the Purchaser, to Bhutan, or to the use of the products/Goods, systems or services to be supplied, where such export restrictions arise from trade regulations from a country supplying those products/Goods, systems or services, the Bidder shall not be bound by its Bid, always provided, however, that the Bidder can demonstrate to the satisfaction of the Purchaser that signing of the Contact Agreement has not been prevented by any lack of diligence on the part of the Bidder in completing any formalities, including applying for permits, authorizations and/or licenses necessary for the export of the products/Goods, systems or services under the terms of the Contract.

51. Performance Security

51.1. Within fifteen (15) working days of the receipt of letter of acceptance from the Purchaser, the Bidder shall submit the Performance Security in accordance with the GCC, using for that purpose any of the following security forms:

(a) unconditional bank guarantee in the form provided for in Section IX, Contract Forms, or another form acceptable to the Purchaser, or

(b) banker's certified cheque/cash warrant, or

(c) demand draft.

51.2. If the Performance Security is provided by the successful Bidder in the form of a demand bank guarantee it shall be issued, at the Bidder's option, by a financial institution located in Bhutan.

51.3. Failure by the successful Bidder to submit the above-mentioned Performance Security or to sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder whose offer is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily. Such a failure shall be considered as "withdrawal" and all relevant clauses shall apply.

52. Complaint and Review

52.1. If the Bidder has or is likely to suffer, loss or injury due to breach of a duty imposed on the Employer by the provisions of this bidding document, the Bidder shall submit the complaint in writing to the Employer within ten (10) days from the date of letter of intent to award the contract. In the first instance, the Bidder shall submit the complaint to the Employer.

52.2. The head of agency shall, within 7 days after the submission of the complaint, issue a written decision.

52.3. The Bidder may appeal to the Independent Review Body within 5 days of the decision of the Head of the Procuring Agency or, where no such decision has been taken, within 15 days of the original complaint and the copy of the appeal shall be given to procuring agency on the same day.

52.4. Once the appeal copy is received by the procuring agency, it shall not proceed further with the procurement process until receipt of notification from the Independent Review Body Secretariat.

SECTION II. BID DATA SHEET

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SECTION II. BID DATA SHEET

A. INTRODUCTION	
ITB 1.1	The Purchaser is: ***Chief Executive Officer, NHDCL, Thimphu.***
ITB 1.1	The name, identification number and number of lots within this procurement are: ***Package –I, Supply of Hardware items (Civil, Electrical, Plumbing, and Tools& Plants) to the NHDCL, Regional Office, Phuentsholing.***
ITB 3.1	Category of trade License eligible for this bidding process is: ***Valid License of all category***
ITB 5.1	All goods and related services to be supplied under the contract shall comply with "***Not applicable***"
B. BIDDING DOCUMENTS	
ITB 8.2	For C**larification of Bid purposes** only, the Purchaser's address is: Attention: ***Store Officer, NHDCL, Regional Office***. Address: ***National Housing Development Corporation Limited, Regional Office, P/ling Bhutan.*** Facsimile number***: 05251182/17765331*** Email: ***needup.dorji@nhdcl.bt***
C. QUALIFICATION CRITERIA	
10.1	The minimum amount of financial resource is Nu. ***Minimum 5 Lakhs validated by providing credit line from Bank.***
11.1 (a)	The minimum number of years of experience in the supply of goods and related services is: *"**Not applicable**"*
11.1 (b)	The specific experience in the supply of similar goods and related services is: *"**Not applicable**"*
11.1 (c)	The minimum production capacity or availability of equipment is: "***Not Applicable***"
D. PREPARATION OF BIDS	
ITB 13.1	The language of the Bid is: ***English***
ITB 14.1 (j)	The bidders shall submit a signed Integrity Pact: *[**Applicable**]*
ITB 14.1 (k)	The Bidder shall submit with its Bid the following additional documents: (a) A duly completed and signed priced quotation as per the Schedule of Items and the Priced Quotation. (b) A valid Trade License[3]; (c) A valid Tax Clearance Certificate;

	(d) Bid- securing declaration (e) Technical Specification of the Goods to be supplied; and (f) Any other requirements specified in this document

ITB 17.1	Alternative Bids ***"shall not be" permitted***. *"A Bidder may submit an alternative Bid only with a Bid for the Goods as specified in Section VI, Schedule of Supply, 3, Technical Specifications (the "base case"). The Purchaser shall only consider the alternative Bid(s) offered by the Bidder whose Bid for the base case was determined to be the lowest-evaluated Bid."*
ITB 18.5	The Incoterms edition is: *[**Not applicable**]*
ITB 18.6 (a) (iii), (b) (ii) and (c) (v)	The final destination (Project Site) is: ***NHDCL Regional Office, Phuentsholing, Bhutan.***
ITB 18.6(b) (i) and (c)(v)	Place of destination: ***NHDCL Regional Office or within Phuentsholing Municipality.***
ITB 19.1	The prices quoted by the Bidder ***"shall not"*** be adjustable. If prices shall be adjustable, the methodology is specified in Section III, Evaluation and Qualification Criteria.
ITB 20.1	The Bidder *"**is**" required* to quote in Ngultrum (BTN) the portion of the Bid Price that corresponds to expenditures incurred in Ngultrum (BTN) in Bhutan.
ITB 23.3	The period of time for which the Goods are expected to be functioning (for the purpose of spare parts, special tools, etc) is ***until its warranty period. The Hardware items, & Civil, Electrical, Plumbing, Tools & Plants or any other items listed in the price schedule will have to be of genuine quality and should render prescribed manufacturers useful life, any item(s) not fulfilling the prescribed manufacturers useful life will have to be replaced at no additional cost to the purchaser***
ITB 24.1 (a)	Manufacturer's authorization *"**is not**"* required.
ITB 24.1 (b)	After sales maintenance, repair, spare parts stocking and related services *["**are not**"]* required, and the Bidder therefore *"**is not**"]* required to be represented by a suitably equipped and able agent in Bhutan.
ITB 25.1	The Bid validity period shall be ***60*(Sixty)** days.
ITB 26.1	The amount and currency of the Bid Security is ***50,000.00 (Fifty Thousand) Ngultrum per bid should be drawn in the form of DD/CW/Favouring Chief Executive Officer, NHDCL.***
E. SUBMISSION AND OPENING OF BIDS	
ITB 27.1 and 28.1	In addition to the original of the Bid, the number of copies is: ***one original and one identical copy of the bid document.***
ITB 28.3 (c)	The name and identification number of the Contract is ***Annual Tender for Phuentsholing, Supply of Hardware items (Civil, Electrical, Plumbing, and Tools& Plants)***
ITB 28.3 (d)	The time and date for Bid Opening is *[**2:30 Pm**]* Bhutan time on **Monday *19th December 2022***

ITB 28.7	Bidders *"**shall not**"* have the option of submitting their Bids electronically.
ITB 29.1	For Bid submission purposes, the Purchaser's address is: Attention: ***Chief Executive Officer, NHDCL.*** Address: ***Post Box - 138, Samdrup Lam, Phuentsholing, Bhutan***. The deadline for the submission of Bids is: Date: ***19/11/2022.*** Time: ***12.30 PM*** Bhutan Standard Time.
ITB 32.1	The Bid Opening shall take place at: Address***: Conference Hall ,Regional Office (Bid Opening Committee) NHDCL, Phuentsholing.*** Date: ***Monday 19th December 2022*** Time: ***2.30 PM*** Bhutan Standard Time
F. EVALUATION AND COMPARISON OF BIDS	
ITB 39.1	Bid prices expressed in different currencies shall be converted into Ngultrum (BTN). The source of exchange rates shall be the Royal Monetary Authority of Bhutan. The date for the exchange rates shall be the date of Bid Opening, as prescribed in ITB Sub-Clause 32.1.
ITB 40.1	A margin of ten percent (10%) Domestic Preference ***shall not*** apply.
ITB 41.3 (a)	Evaluation will be done for ***insert Items*** *Bids will be evaluated for each item and the Contract will comprise the item(s) awarded to the successful Bidder.*

ITB 41.3 (e)	The adjustments shall be determined using the following criteria from amongst those set out in Section III, Evaluation and Qualification Criteria: *[refer to Schedule III, Evaluation and Qualification Criteria; insert complementary details if necessary*] *(a)* Deviation in payment schedule: ***[No]*** (b) The cost of major replacement components, mandatory spare parts, and service: ***[Yes]*** (c) The availability in Bhutan of spare parts and after-sales services for the equipment offered in the Bid ***[Yes]*** (d) The projected operating and maintenance costs during the life of the equipment ***[Yes if required]***
	(e) The performance and productivity of the equipment offered: [***Yes]*** *(f)* ***The listed items in the price schedule should confirm to specific application and manufacturers technical specifications.***
ITB 41.6	Bidders ***"shall not"*** be allowed to quote separate prices for one or more lots. *[refer to Section III, Evaluation and Qualification Criteria for the evaluation methodology, if appropriate]*
G. AWARD OF CONTRACT	
ITB 47.1	The maximum percentage by which quantities may be increased is ***[Nil]*** % The maximum percentage by which quantities may be decreased is ***[Nil]*** %

SECTION III. EVALUATION AND QUALIFICATION CRITERIA

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1. Domestic Preference (ITB 40)

1.1. If the Bidding Data Sheet (BDS) so specifies, the purchaser may grant a margin of preference to goods manufactured in the Purchaser's country for the purpose of bid comparison, in accordance with the procedure outlined in subsequent paragraphs:

1.2. Bids will be classified in one of the three groups, as follows:

(a) Group A: Bids offering goods manufactured in Bhutan, for which (i) labour, raw materials and components from within the country account for more than thirty (30) percent of the EXW price; and (ii) the production facility in which they will be manufactured or assembled has been engaged in manufacturing or assembling such goods at least since the date of bid submission.

(b) Group B: All other bids offering Goods manufactured in Bhutan

(c) Group C: Bids offering Goods manufactured outside Bhutan that have been already imported or that will be imported.

1.3. The price quoted for goods in bids of Group A and B shall include all duties and taxes paid or payable on the basic materials or components purchased in the domestic market or imported, but shall exclude the sales and similar taxes on the finished product. The price quoted for goods in bids of Group C shall be on CIF or CIP (place of destination), which is exclusive of customs duties and other import taxes already paid or to be paid.

1.4. In the first step, all evaluated bids in each group shall be compared to determine the lowest bid in each group. Such lowest evaluated bids shall be compared with each other and if, as a result of this comparison, a bid from Group A or Group B is the lowest, it shall be selected for the award.

1.5. If as a result of preceding comparison, the lowest evaluated bid is a bid from Group C, the lowest evaluated bid from Group C shall be further compared with the lowest evaluated bid from Group A after adding to the lowest evaluated price of goods offered in the bid from Group C, for the purpose of this further comparison only, an amount equal to five (5) percent of the CIF or CIP bid price. The lowest evaluated bid determined form this last comparison shall be selected for the award.

2. Evaluation Criteria (ITB 41.3 (e))

The Purchaser's evaluation of a Bid may take into account, in addition to the Bid Price quoted in accordance with ITB Sub-Clause 18.6, one or more of the following factors as specified in ITB Sub-Clause 41.3(e) and in the BDS referring to ITB Sub-Clause 41.3(e), using the following criteria and methodologies.

(a) Deviation in Payment Schedule.

(i) *Bidders shall state their Bid price for the payment schedule outlined in the SCC. Bids shall be evaluated on the basis of this base price. Bidders are, however, permitted to state an alternative payment schedule and indicate the reduction in Bid Price they wish to offer for such alternative payment schedule. The Purchaser may consider the alternative payment schedule and the reduced Bid Price offered by the Bidder selected on the basis of the base price for the payment schedule outlined in the SCC.*

(b) Cost of major replacement components, mandatory spare parts, and service.

(i) *The list of items and quantities of major assemblies, components and selected spare parts likely to be required during the initial period of operation specified in BDS Sub-Clause ITB 23.3 is in the List of Goods. An adjustment equal to the total cost of these items, at the unit prices quoted in each Bid, shall be added to the Bid Price, for*

evaluation purposes only.

(c) Availability in Bhutan of spare parts and after sales services for equipment offered in the Bid.

An adjustment equal to the cost to the Purchaser of establishing the minimum service facilities and parts inventories, as outlined in BDS Sub-Clause ITB 41.3 (e), if quoted separately, shall be added to the Bid Price, for evaluation purposes only.

(d) Projected operating and maintenance costs.

Operating and maintenance costs. An adjustment to take into account the operating and maintenance costs of the Goods will be added to the Bid Price, for evaluation purposes only, if specified in BDS Sub-Clause ITB 41.3 (e). The adjustment will be evaluated in accordance with the methodology specified in the BDS Sub-Clause ITB 41.3 (e).

(e) Performance and productivity of the equipment. (insert one of the following)

(i) Performance and productivity of the equipment. An adjustment representing the capitalized cost of additional operating costs over the life of the plant will be added to the Bid Price, for evaluation purposes, if specified in BDS Sub-Clause ITB 41.3(e). The adjustment will be evaluated based on the drop in the guaranteed performance or efficiency offered in the Bid below the norm of 100, using the methodology specified in BDS Sub-Clause ITB 41.3 (e).

or

(ii) An adjustment to take into account the productivity of the Goods offered in the Bid will be added to the Bid Price, for evaluation purposes only, if specified in BDS Sub-Clause ITB 41.3 (e). The adjustment will be evaluated based on the cost per unit of the actual productivity of the Goods offered in the Bid with respect to minimum required values, using the methodology specified in BDS Sub-Clause ITB 41.3 (e).

(f) Specific additional criteria

Other specific additional criteria to be considered in the evaluation, and the evaluation method, shall be detailed in BDS Sub-Clause ITB 41.3 (e)]

3. Multiple Contracts (ITB 41.6)

The Purchaser shall award multiple contracts to the Bidder that offers the lowest evaluated combination of Bids (one contract per Bid).

The Purchaser shall:

(a) evaluate only lots or contracts that include at least the percentages of items per lot and quantity per item as specified in ITB Sub-Clause 18.7.

(b) take into account:

(i) the lowest-evaluated Bid for each lot; and

(ii) the price reduction per lot and the methodology for its application as offered by the Bidder in its Bid.

SECTION IV. BIDDING FORMS

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Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[……) of Bid submission*]
Bid No.: *[…….]*

Page_____of_____pages

1.	Bidder's Legal Name *[…….]*
2.	In the case of a Joint Venture, Consortium or Association (JV/C/A) legal name of each party: *[……]*
3.	Bidder's actual or intended Country of Registration: *[…….]*
4.	Bidder's Year of Registration: *[…….]*
5.	Bidder's Legal Address in Country of Registration: *[…….]*
6.	Bidder's Authorized Representative Information Name:*[…….]* Address:*[……]* Telephone/Fax numbers: *[……]* E-mail Address: *[…….]*

7. Attached are copies of the following original documents: *[check the box(es) of the attached original documents]*

☐ Articles of Incorporation or Registration of firm named in 1 above, in accordance with ITB Sub-Clause 3.1.

☐ In the case of a JV/C/A, letter of intent to form the JV/C/A, or the JV/C/A agreement, in accordance with ITB Sub-Clause 24.1 (c) (v).

☐ In the case of a government owned entity from Bhutan, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB Sub-Clause 3.3.

☐ Power of attorney authorizing the signatory of the Bid to sign on behalf of the Bidder.

Joint Venture, Consortium or Association (JV/C/A) Partner Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below].

Date: *[…….]*

Bid No.: *[…….]*

Page_____of_____pages

1. Bidder's Legal Name: *[…….]*
2. JV/C/A Party's legal name: *[…….]*
3. JV/C/A Party's Country of Registration: *[…….]*
4. JV/C/A Party's Year of Registration: *[……]*
5. JV/C/A Party's Legal Address in Country of Registration: *[……]*
6. JV/C/A Party's Authorized Representative Information Name: *[…….]* Address: *[…….]* Telephone/Fax numbers: *[…….]* E-mail Address: *[……]*
7. Attached are copies of the following original documents: *[check the box(es) of the attached original documents]* ☐ Articles of Incorporation or Registration of firm named in 2 above, in accordance with ITB Sub-Clause 3.1. ☐ In the case of a government owned entity from Bhutan, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB Sub-Clause 3.3.

Bid Submission Sheet

[The Bidder shall fill in this form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[……]*
Invitation for Bid No.: *[……]*
Alternative No.: *[……]*

To: *[……]*

We, the undersigned, declare that:

(a) We have examined and have no reservations to the Bidding Documents, including Addenda No.: *[……]*;

(b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Supply the following Goods and Related Services: *[……]*;

(c) The total price of our Bid, excluding any discounts offered in item (d) below is: *[……]*;

(d) The discounts offered and the methodology for their application are:

Discounts. If our Bid is accepted, the following discounts shall apply:
[……]

Methodology of Application of the Discounts. The discounts shall be applied using the following methodology:
[……];

(e) Our Bid shall be valid for a period of *[insert number] days* from the date fixed for the Bid submission deadline in accordance with ITB Sub-Clause 29.1, and it shall remain binding upon us and may be accepted at any time before expiry of that period;

(f) If our Bid is accepted, we commit to provide a Performance Security in accordance with ITB Clause 51 and GCC Clause 19 for the due performance of the Contract;

(g) We are not participating, as Bidders, in more than one Bid in this bidding process, other than any alternative offers submitted in accordance with ITB Clause 17;

(h) We, including any subcontractors or suppliers for any part of the Contract, have nationality from eligible countries, viz:
[……]

(i) We have no conflict of interest pursuant to ITB Sub-Clause 3.2;

(j) Our firm, its affiliates or subsidiaries - including any subcontractors or suppliers for any part of the contract - has not been declared ineligible by the Purchaser under the laws or official regulations of Bhutan, in accordance with ITB Sub-Clause 3.4;

(k) The following commissions, gratuities or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount
_____	_____	_____	_____
_____	_____	_____	_____

(If none has been paid or is to be paid, indicate "none.")

(l) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.

(m) We understand that you are not bound to accept the lowest evaluated Bid or any other Bid that you may receive.

Signed:_____

In the capacity of_____

Name:_____

Duly authorized to sign the bid for and on behalf of:_____

Dated on_____day of_____,_____*[insert date of signing]*

Price Schedule Forms

[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in Column 1 of the ***Price Schedules*** *shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Supply.]*

Price Schedule: Goods Manufactured Outside the Purchaser's Country, to be Imported

(Group C Bids, goods to be imported) Currencies in accordance with ITB 17								Date: RFB No: Alternative No: Page N° ☐ of _____
1	2	3	4	5	6	7	8	9
Line Item N°	Description of Goods	Country of Origin	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price cip *[insert place of destination]* in accordance with ITB 18.6(b)(i)	CIP Price per line item (Col. 5x6)	Price per line item for inland transportation and other services required in the Purchaser's Country to convey the Goods to their final destination specified in BDS	Total Price per Line item (Col. 7+8)
As per price schedule Annexures-I,II,III&IV	*Supply of Hardware items (Civil, Electrical, Plumbing, and Tools& Plants*	*NHDCL , Store or within Phuentsholing Municipality*	*As mentioned in the supply order*	*As reflected in price schedule*	*Not applicable*	*Not applicable*	*Not applicable*	*Not applicable*
				of the physical unit]				
							Total Price	

Name of Bidder *[…….]*

Signature of Bidder *[…….]* Date *[……]*

Price Schedule: Goods Manufactured Outside the Purchaser's Country, already imported*

(Group C Bids, Goods already imported) Currencies in accordance with ITB 20									Date: _____ RFB No: _____ Alternative No: _____ Page N° __of __		
1	2	3	4	5	6	7	8	9	10	11	12
Line Item N°	Description of Goods	Country of Origin	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price including Custom Duties and Import Taxes paid, in accordance with ITB 18.6(c)(i)	Custom Duties and Import Taxes paid per unit in accordance with ITB 18.6(c)(ii) , [to be supported by documents]	Unit Price net of custom duties and import taxes, in accordance with ITB 18.6 (c) (iii) (Col. 6 minus Col.7)	Price per line item net of Custom Duties and Import Taxes paid, in accordance with ITB 18.6(c)(i) (Col. x58)	Price per line item for inland transportation and other services required in the Purchaser's Country to convey the goods to their final destination, as specified in BDS in accordance with ITB 18.6 (c)(v)	Sales and other taxes paid or payable per item if Contract is awarded (in accordance with ITB 18.6(c)(iv)	Total Price per line item (Col. 9+10+11)
As per price schedule Annexures-I,II,III&IV	***Supply of Hardware items (Civil, Electrical, Plumbing, and Tools& Plants).***	***NHDCL , Store or within Phuentsholing Municipality***	***As per the requirement of purchaser and as reflected in price schedule***	***As reflected in price schedule.***	***Deliver as and when required for small quantity and may be 30 days for large quantity***	***As per price schedule Annexure***	***As per price schedule Annexure***	***As per price schedule Annexure***	***As per price schedule Annexure***	***As per price schedule Annexure***	***As per price schedule Annexure***
										Total Bid Price	

Name of Bidder *[……]* Signature of Bidder *[……]* Date *[…….]*

Price Schedules is/are attached at last page of these bidding documents as annexure:-

1. ***Annexure-I: Civil Items(16 pages – 2-17)***
2. ***Annexure-II: Electrical Items(22 pages- 18-39)***
3. ***Annexure-III: Plumbing Items(35 pages- 40-74)***
4. ***Annexure-IV: Tools & Plants(12 Pages-75-86)***

* *[For previously imported Goods, the quoted price shall be distinguishable from the original import value of these Goods declared to customs and shall include any rebate or mark-up of the local agent or representative and all local costs except import duties and taxes, which have been and/or have to be paid by the Purchaser. For clarity the Bidders are asked to quote the price including import duties, and additionally to provide the import duties and the price net of import duties which is the difference of those value*

Price Schedule: Goods Manufactured in Bhutan. (*Not applicable*)

Currencies in accordance with ITB Clause 18								Date: _____ IFB No: _____ Alternative No: _____ Page No:_____of _____	
1	2	3	4	5	6	7	8	9	10
Line Item N°	Description of Goods	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price EXW	Total EXW price per line item (Col. 4x5)	Price per line item for inland transportation, insurance and other services required in Bhutan to convey the Goods to their final destination (project Site)	Cost of local labor, raw materials and components with origin in Bhutan % of Col. 5	Sales and other taxes payable per line item if Contract is awarded [in accordance with ITB Sub-Clause 18.6 (a) (ii)]	Total Price per line item (Col. 6+7+9)
[insert number of the item]	*[insert name of Good]*	*[insert quoted Delivery Date]*	*[insert number of units to be supplied and name of the physical unit]*	*[insert EXW unit price]*	*[insert total EXW price per line item]*	*[insert the corresponding price per line item]*	*[Insert cost of local labor, raw material and components from within Bhutan as a % of the EXW price per line item]*	*[insert sales and other taxes payable per line item if Contract is awarded]*	*[insert total price per item]*
								Total Price	

Name of Bidder *[…….]* Signature of Bidder *[…….]* Date *[…….]*

Price and Completion Schedule - Related Services

Currencies in accordance with ITB Clause 18					Date: IFB No: Alternative No: Page No:_____of _____	
1	2	3	4	5	6	7
Service N°	Description of Services (excludes inland transportation and other services required in Bhutan to convey the Goods to their final destination)	Country of Origin	Delivery Date at place of Final destination	Quantity and physical unit	Unit price	Total Price per Service (Col. 5 6 or estimate)
As per price schedule Annexure-I,II,III&IV	***Supply of Hardware items (Civil, Electrical, Plumbing, and Tools& Plants).***	***Phuentsholing, Bhutan***	***Deliver as and when required for small quantity and may 30 days for large quantity to NHDCL Store or within Phuentsholing Municipality***	***As per price schedule Annexure-I,II,III&IV***	***As per price schedule Annexure-I,II,III&IV***	***Not Applicable***

Total Bid Price	

Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[insert date]*

Bid Security (Bank Guarantee)

[The Bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]

_____

[insert Bank's Name, and Address of Issuing Branch or Office]

Beneficiary:_____*[Name and Address of Purchaser]*

Date: _____

BID GUARANTEE No.: _____

We have been informed that *[insert name of the Bidder]* (hereinafter called "the Bidder") has submitted to you its Bid dated (hereinafter called "the Bid") for the execution of *[insert name of Contract]* under Invitation for Bids No. *[insert IFB number]* ("the IFB").

Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.
At the request of the Bidder, we *[insert name of Bank]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[insert amount in figures]* (*[insert amount in words]*) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the Bid conditions, because the Bidder:

(a) has withdrawn its Bid during the period of Bid validity specified by the Bidder in the Form of Bid; or

(b) having been notified of the acceptance of its Bid by the Purchaser during the period of Bid validity, (i) fails or refuses to execute the Contract Form; or (ii) fails or refuses to furnish the Performance Security, if required, in accordance with the Instructions to Bidders.

This guarantee will expire: (a) if the Bidder is the successful Bidder, upon our receipt of copies of the contract signed by the Bidder and the Performance Security issued to you upon the instruction of the Bidder; or (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful Bidder; or (ii) thirty days after the expiration of the Bidder's Bid.

Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

_____

[signature(s)]

Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the ***BDS.****]*

Date: *[…….]*

Invitation for Bid No.: *[……..…]*
Alternative No.: *[……]*

To: *[…….]*

WHEREAS
We *[…….]*, who are official manufacturers of *[…… …….]*, having factories at *[…….]*, do hereby authorize *[…….]* to submit a Bid in relation to the Invitation for Bids indicated above, the purpose of which is to provide the following Goods, manufactured by us, namely *[……]*, and subsequently to negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 29 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[…….]*

Name: *[…….]*

Title: *[……]*

Duly authorized to sign this Authorization for and on behalf of
[…….]

Dated on the *[…….]* day of *[…….], […….]*.

INTEGRITY PACT

1. General:

Whereas *Chief Executive Officer* representing the *National Housing Development Corporation Limited* Royal Government of Bhutan, hereinafter referred to as the **"Employer"** on one part, and *(.....)* representing M/s. (.....), hereinafter referred to as the **"Bidder"** on the other part hereby execute this agreement as follows:

This agreement shall be a part of the standard bidding document, which shall be signed by both the parties at the time of purchase of bidding documents and submitted along with the tender document. This IP is applicable only to "**large**" scale works, goods and services, the threshold of which will be announced by the government from time to time. The signing of the IP shall not apply to framework contracting such as annual office supplies etc.

2. Objectives:

Whereas, the Employer and the Bidder agree to enter into this agreement, hereinafter referred to as IP, to avoid all forms of corruption or deceptive practice by following a system that is fair, transparent and free from any influence/unprejudiced dealings in the **bidding process**[15] and **contract administration**[16], with a view to:

2.1. Enabling the Employer to obtain the desired contract at a reasonable and competitive price in conformity to the defined specifications of the works or goods or services; and

2.2. Enabling bidders to abstain from bribing or any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also refrain from bribing and other corrupt practices.

3. Scope:

The validity of this IP shall cover the bidding process and contract administration period.

4. Commitments of the Employer:

The Employer Commits itself to the following:-

4.1. The Employer hereby undertakes that no officials of the Employer, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favor or any material or immaterial benefit or any other advantage from the Bidder, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process and contract administration.

4.2. The Employer further confirms that its officials shall not favor any prospective bidder in any form that could afford an undue advantage to that particular bidder in the bidding process and contract administration and will treat all Bidders alike.

15 Bidding process, for the purpose of this IP, shall mean the procedures covering tendering process starting from bid preparation, bid submission, bid processing, and bid evaluation.

16 Contract administration, for the purpose of this IP, shall mean contract award, contract implementation, un-authorized sub-contracting and contract handing/taking over.

4.3. Officials of the Employer, who may have observed or noticed or have reasonable suspicion shall report to the head of the employing agency or an appropriate government office any violation or attempted violation of clauses 4.1 and 4.2.

4.4. Following report on violation of clauses 4.1 and 4.2 by official (s), through any source, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings shall be initiated by the Employer and such a person shall be debarred from further dealings related to the bidding process and contract administration.

5. Commitments of Bidders

The Bidder commits himself/herself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of the bidding process and contract administration in order to secure the contract or in furtherance to secure it and in particular commits himself/herself to the following :-

5.1. The Bidder shall not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favor, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the Employer, connected directly or indirectly with the bidding process and contract administration, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding process and contract administration.

5.2. The Bidder shall not collude with other parties interested in the contract to manipulate in whatsoever form or manner, the bidding process and contract administration.

5.3. If the bidder(s) have observed or noticed or have reasonable suspicion that the provisions of the IP have been violated by the procuring agency or other bidders, the bidder shall report such violations to the head of the procuring agency.

6. Sanctions for Violation:

The breach of any of the aforesaid provisions shall result in administrative charges or penal actions as per the relevant rules and laws.

6.1. The breach of the IP or commission of any offence (forgery, providing false information, mis-representation, providing false/fake documents, bid rigging, bid steering or coercion) by the Bidder, or any one employed by him, or acting on his/her behalf (whether with or without the knowledge of the Bidder), shall be dealt with as per the terms and conditions of the contract and other provisions of the relevant laws, including De-barment Rules.

6.2. The breach of the IP or commission of any offence by the officials of the procuring agency shall be dealt with as per the rules and laws of the land in vogue.

7. Monitoring and Administration:

7.1. The respective procuring agency shall be responsible for administration and monitoring of the IP as per the relevant laws.

7.2. The bidder shall have the right to appeal as per the arbitration mechanism contained in the relevant rules.

We, hereby declare that we have read and understood the clauses of this agreement and shall abide by it.

The parties hereby sign this Integrity Pact at *(place)*_____on *(date)* _____

Affix
Legal
Stamp

Chief Executive Officer
National Housing Development Corporation Ltd
Thimphu : Bhutan

EMPLOYER

CID: 1 1 4 1 0 0 0 6 4 3 3

Witness: _____

Name: KUENZANG CHODEN

CID: 1 1 6 0 1 0 0 2 7 2 1

BIDDER/REPRESENTATIVE

CID: _____

Witness: _____

Name:

CID: _____

Letter of Intent

(Letterhead paper of the Employer)

Notes on standard form of letter of Intent

This issuance of Letter of Intent(always before letter of acceptance) is the information of the selection of the bid of the successful bidder by the Employer and for providing information to other unsuccessful bidders who participated in the bid as regards the outcome of the procurement process

The Employer shall allow 10 days as described in ITB 35.2 between this letter of intent and letter of acceptance to allow aggrieved bidders to complaint the decision if they feel they have treated unfairly.

(*Insert date*)

To:_____[*Name and address of the Supplier*]

This is to notify you that, it is our intention to award the contract for your Bid dated----------[*Insert date*] for execution of the----------[*Insert name of the contract and identification number, as given in the BDS/SCC*] for the Contract Price of----------[*Insert amount in figure and words and name of currency*] as corrected and modified [*if any corrections*] in accordance with the Instructions to Bidders or (*for item-wise contract insert list of items price schedule as attachement)*

Authorized Signature: ----------

Name and Title of Signatory:----------

Name of Agency: ----------

CC:
[Insert name and address of all other suppliers who submitted the bid]

SECTION V: ELIGIBLE COUNTRIES

Eligibility for the Provision of Goods and Related Services in RGoB-financed Procurement

The RGoB permits firms and individuals from all countries to offer Goods and Related Services for RGoB-financed projects. As an exception, firms of a Country, Goods manufactured in a Country or services provided from or by a Country may be excluded if:

1.1. as a matter of law or official regulation, the RGoB prohibits commercial relations with that Country; or

1.2. by an Act of Compliance with a Decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the RGoB prohibits any import of Goods from that Country or any payments to persons or entities in that Country.

For the information of Bidders, at the present time firms, Goods and Services from the following countries are excluded from this bidding:

(a) With reference to Paragraph 1.1 above:

[insert list of countries prohibited under the law or official regulations of Bhutan]

(b) With reference to Paragraph 1.2 above:

[insert list of countries which are barred under UN Security Council Chapter VII]

PART 2
SUPPLY REQUIREMENTS

SECTION VI: SCHEDULE OF SUPPLY

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2. List of Related Services and Completion Schedule 61
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Notes for Preparing the Schedule of Supply

The Schedule of Supply shall be included in the Bidding Documents by the Purchaser, and shall cover, at a minimum, a description of the Goods and Services to be supplied and the delivery schedule.

The objective of the Schedule of Supply is to provide sufficient information to enable Bidders to prepare their Bids efficiently and accurately, in particular the Price Schedule, for which a form is provided in Section IV. In addition, the Schedule of Supply, together with the Price Schedule, should serve as a basis in the event of quantity variation at the time of award of Contract pursuant to ITB Clause 47.

The date or period for delivery should be carefully specified, taking into account(a) the implications of delivery terms stipulated in the Instructions to Bidders pursuant to the *Inco terms* rules (i.e., EXW; or CIF, CIP, FOB, FCA where "delivery" takes place when the Goods are delivered **to the carriers**), and (b) the date prescribed herein from which the Purchaser's delivery obligations start (i.e., notice of award, contract signature, opening or confirmation of the letter of credit).

1. List of Goods and Delivery Schedule

[The Purchaser shall fill in this table, with the exception of the column "Bidder's Offered Delivery Date", which is to be filled by the Bidder]

Line Item N°	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery Date	Bidder's Offered Delivery Date [*to be provided by the Bidder*]
					As per Delivery date mentioned in the supply order	
As per price schedule Annexure-I,II,III&IV	***Supply of Hardware items (Civil, Electrical Plumbing, and Tools& Plants).***	***As per price schedule Annexure-I,II,III&IV***	***As per price schedule Annexure-I,II,III&IV***	***NHDCL, Stores or within Phuentsholing Municipality***		

2. List of Related Services and Completion Schedule

[This table shall be filled in by the Purchaser. The Required Completion Dates should be realistic, and consistent with the required Goods Delivery Dates (as per Incoterms)]

Service	Description of Service	Quantity[1]	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
As per price schedule Annexure	*Supply of Hardware items (Civil, Electrical Plumbing, and Tools& Plants).*	*As mentioned in the Supply Order*	*As mentioned in the supply order*	*[NHDCL Store or within Thimiphu Municipality]*	***[(1/01/2023 up to 31/12/2023)]***

1. If applicable

3. Technical Specifications

The purpose of the Technical Specifications (TS) is to define the technical characteristics of the Goods and Related Services required by the Purchaser. The Purchaser shall prepare the detailed TS taking into account that:

- *The TS constitute the benchmarks against which the Purchaser will verify the technical responsiveness of Bids and subsequently evaluate the Bids. Therefore, well-defined TS will facilitate preparation of responsive Bids by Bidders, as well as examination, evaluation and comparison of the Bids by the Purchaser.*
- *The TS shall require that all goods and materials to be incorporated in the Goods be new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided for otherwise in the Contract.*
- *The TS shall make use of best practices. Samples of specifications from successful similar procurements may provide a sound basis for drafting the TS.*
- *Standardizing technical specifications may be advantageous, depending on the complexity of the Goods and the repetitiveness of the type of procurement. Technical Specifications should be broad enough to avoid restrictions on workmanship, materials and equipment commonly used in manufacturing similar kinds of Goods.*
- *Standards for equipment, materials and workmanship specified in the Bidding Documents shall not be restrictive. Recognized international standards should be specified as much as possible. Reference to brand names, catalogue numbers or other details that limit any materials or items to a specific manufacturer should be avoided as far as possible. Where unavoidable, such item description should always be followed by the words "or equivalent or higher." When other particular standards or codes of practice are referred to in the TS a statement should follow to the effect that other authoritative standards that ensure at least a substantially equal quality will also be acceptable.*
- *Technical Specifications shall be fully descriptive of the requirements in respect of, but not limited to, the following:*
  - (a) Standards of materials and workmanship required for the production and manufacturing of the Goods.
  - (b) Detailed tests required (type and number).
  - (c) Other additional work and/or Related Services required to achieve full delivery/ completion.
  - (d) Detailed activities to be performed by the Supplier, and participation of the Purchaser therein.
  - (e) List of detailed functional guarantees covered by the Warranty and the specification of the liquidated damages to be applied in the event that such guarantees are not met.
- *The TS shall specify all essential technical and performance characteristics and requirements, including guaranteed or acceptable maximum or minimum values, as appropriate. Whenever necessary, the Purchaser shall include an additional ad-hoc bidding form (to be an Attachment to the Bid Submission Sheet), where the Bidder shall provide detailed information on such technical performance characteristics in respect of the corresponding acceptable or guaranteed values.*

When the Purchaser requests that the Bidder provides in its Bid a part or all of the Technical Specifications, technical schedules or other technical information, the Purchaser shall specify in detail the nature and extent of the required information and the manner in which it has to be presented by the Bidder in its Bid.

[If a summary of the Technical Specifications (TS) has to be provided, the Purchaser shall insert information in the table below. The Bidder shall prepare a similar table to justify compliance with the requirements]

*"**Summary of Technical Specifications**. The Goods and Related Services shall comply with following Technical Specifications and Standards:*

Item No	***Name of Goods or Related Service***	***Technical Specifications and Standards***
As per price schedule Annexure-I,II,III&IV	*As per price schedule Annexure-I,II,III&IV*	***Rate for, all Hard ware Items must quoted only for genuine quality and brand as specified in the price schedule Annexure*** ****Sample have to be submitted as and when required***

Detailed Technical Specifications and Standards [whenever necessary].

[Insert detailed description of TS] _____

_____

_____"

4. Drawings

These Bidding Documents include *["**no**"]* drawings.

[If documents shall be included, insert the following List of Drawings]

List of Drawings		
Drawing No.	**Drawing Name**	**Purpose**

5. Inspections and Tests

The following inspections and tests shall be performed: *[insert list of inspections and tests]*

The quality of item (s) supplied shall be strictly checked and if found non-genuine shall be unconditionally rejected and supplier must replace with the required quality item without any additional cost to the purchaser within the time allowed for replacement. Should the supplier fail to replenish the rejected lot or item within the allocated time, the purchaser has the right to purchase such item (s) from other source at the cost and risk of the defaulting supplier.

Under no circumstances the substandard goods or stores should be supplied by the supplier during the entire period of contractual agreement.

PART 3
CONTRACT

SECTION VII. GENERAL CONDITIONS OF CONTRACT

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SECTION VII. GENERAL CONDITIONS OF CONTRACT

1. Definitions

1.1. The following words and expressions shall have the meanings hereby assigned to them:

(a) **Award of Contract** means the decision of the Purchaser to enter into a Contract with the Supplier for supply and delivery of the specified Goods, including any Related Services.

(b) **Bid** means an offer to supply Goods, including any Related Services, made in accordance with the terms and conditions set out in the Bidding Documents that preceded the placement of the Contract of which these GCC form a part. The term "tender" is synonymous with the term "Bid".

(c) **Bidder** means an eligible individual or legal entity that participated in the bidding process governed by the Bidding Documents that preceded the placement of the Contract of which these GCC form a part.

(d) **Bidding Documents** means the set of Bidding Documents that preceded the placement of the Contract of which these GCC form a part, which were sold or issued by the Purchaser to potential Bidders, and in which the specifications, terms and conditions of the proposed procurement were prescribed.

(e) **Contract Documents** means the documents listed in the Contract Agreement, including any amendments thereto.

(f) **Contract Price** means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom as may be made pursuant to the Contract.

(g) **Day** means calendar day.

(h) **Delivery** means the transfer of the Goods from the Supplier to the Purchaser in accordance with the terms and conditions set forth in the Contract Documents.

(i) **GCC** means the General Conditions of Contract.

(j) **Goods** means all of the commodities, raw materials, machinery and equipment, and/or other materials, including any object in solid, liquid or gaseous form that has an economic utility or value and which can be exchanged or traded, that the Supplier is required to supply to the Purchaser under the Contract.

(k) The **Project Site,** where applicable, means the place named in the SCC.

(l) **Purchaser** means the entity purchasing the Goods and Related Services, as specified in the SCC.

(m) **Related Services** means the services incidental to the supply of the Goods, such as insurance, installation, training and initial maintenance and other obligations of the Supplier under the Contract

(n) **SCC** means the Special Conditions of Contract.

(o) **Subcontractor** means any natural person, private or government entity, or a combination thereof, including its legal successors and permitted assigns, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.

(p) **Supplier** means the natural person, private or government entity, or a combination of the above, whose Bid to perform the Contract has been accepted by the Purchaser and is named as such in the Agreement, and includes the legal successors or permitted assigns of the Supplier.

2. Contract Documents

2.1. Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary and mutually explanatory. The Contract Agreement shall be read as a whole.

3. Fraud and Corruption

3.1. If the Purchaser determines that the Supplier has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for or in executing the Contract then the Purchaser may, after giving fourteen (14) days notice to the Supplier, terminate the Supplier's employment under the Contract and cancel the Contract, and the provisions of GCC Clause 36 shall apply as if such termination has been made under GCC Sub-Clause 36.1.

3.2. Should any employee of the Supplier be determined to have engaged in corrupt, fraudulent, collusive, coercive or obstructive practice during the purchase of the Goods, then that employee shall be removed.

3.3. For the purposes of this Sub-Clause:

(a) "corrupt practice"[17] is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value[18] to influence improperly the actions of another party;

(b) "fraudulent practice"[19] is any intentional act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

17 "another party" refers to a public official acting in relation to the procurement process or contract execution. In this context, "public official" includes staff and employees of other organizations (including any institutions providing finance for the Goods) taking or reviewing procurement decisions.

18 "anything of value" includes, but is not limited to, any gift, loan, fee, commission, valuable security or other asset or interest in an asset; any office, employment or contract; any payment, discharge or liquidation of any loan, obligation or other liability whatsoever, whether in whole or in part; any other services, favour or advantage, including protection from any penalty or disability incurred or apprehended or from any action or proceeding of a disciplinary or penal nature, whether or not already instituted and including the exercise or the forbearance from the exercise of any right or any official power or duty.

19 a "party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.

(c) "collusive practice"[20] is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

(d) "coercive practice"[21] is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

(e) "obstructive practice" is

(i) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order materially to impede any investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(ii) acts intended materially to impede the exercise of the inspection and audit rights of the Purchaser and/or any other relevant RGoB agency provided for under GCC Clause 11.

3.4. Any communications between the Supplier and the Purchaser related to matters of alleged fraud or corruption must be made in writing.

4. Interpretation

4.1. If the context so requires it, singular means plural and vice versa.

4.2. Incoterms

(a) Unless inconsistent with any provision of the Contract or otherwise specified in the SCC, the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms.

(b) The terms EXW, CIF, CIP and other similar terms, when used, shall be governed by the rules prescribed in the current edition of Incoterms specified in the SCC and published by the International Chamber of Commerce in Paris, France.

4.3. Entire Agreement

The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.

4.4. Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

20 "parties" refers to participants in the procurement process (including public officials) and an "improper purpose" includes attempting to establish bid prices at artificial, non competitive levels.

21 a "party" refers to a participant in the procurement process or contract execution.

4.5. Non-waiver

(a) Subject to GCC Sub-Clause 4.5 (b) below, no relaxation, forbearance, delay or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

(b) Any waiver of a party's rights, powers or remedies under the Contract must be in writing, dated and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.6. Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

5. Language

5.1. The Contract, as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be written in the language specified in the SCC. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the SCC, in which case, for purposes of interpretation of the Contract, the translation shall govern.

5.2. The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.

6. Joint Venture, Consortium or Association

6.1. If the Supplier is a joint venture, consortium or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium or association. The composition or the constitution of the joint venture, consortium or association shall not be altered without the prior consent of the Purchaser.

7. Eligibility

7.1. The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.

7.2. All Goods and Related Services to be supplied under the Contract shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the Goods have been grown, mined, cultivated, produced, manufactured or processed; or through manufacture, processing or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

8. Notices

8.1. Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the SCC. The term "in writing" means communicated in written form, including electronic communication, with proof of receipt.

8.2. A notice shall be effective when delivered or on the notice's effective date, whichever is later.

9. Governing Law

9.1. The Contract shall be governed by and interpreted in accordance with the laws of Bhutan.

10. Settlement of Disputes

10.1. The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

10.2. If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute. No arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.

10.3. Notwithstanding any reference to arbitration herein,

(a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and

(b) the Purchaser shall pay the Supplier any monies due the Supplier.

11. Inspections and Audit

11.1. The Supplier shall permit the Purchaser and/or persons appointed by the Purchaser to inspect the Supplier's offices and/or the accounts and records of the Supplier and its Subcontractors relating to the performance of the Contract, and to have such accounts and records audited by auditors appointed by the Purchaser if so required by the Purchaser. The Supplier's attention is drawn to GCC Clause 3, which provides, inter alia, that acts intended materially to impede the exercise of the inspection and audit rights provided for under this GCC Sub-Clause 11.1 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility under ITB Sub-Clause 2.1 (c) of the Instructions to Bidders that preceded the placement of the Contract of which these GCC form a part).

12. Scope of Supplies

12.1. The Goods and Related Services to be supplied shall be as specified in the Schedule of Supply.

12.2. Unless otherwise stipulated in the Contract, the Supply shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Delivery of the Goods and Completion of the Related Services as if such items were expressly mentioned in the Contract.

13. Delivery and Documents

13.1. Subject to GCC Sub-Clause 34.1, the delivery of the Goods and completion of the Related Services shall be in accordance with the delivery and completion requirements specified in the Schedule of Supply. The details of shipping and other documents to be furnished by the Supplier are specified in the SCC.

14. Supplier's Responsibilities

14.1. The Supplier shall supply all the Good sand Related Services included in the Scope of Supplies in accordance with GCC Clause 12, and the delivery and completion requirements as per GCC Clause 13.

15. Purchaser's Responsibilities

15.1. Whenever the supply of Goods and Related Services requires that the Supplier obtain permits, approvals and/or import and other licenses or similar permissions from Bhutanese public authorities, the Purchaser shall, if so required by the Supplier, use its best efforts to assist the Supplier in complying with such requirements in a timely and expeditious manner, but without incurring any costs.

16. Contract Price

16.1. The Contract Price shall be as specified in the Contract Agreement subject to any additions and adjustments thereto or deductions therefrom as may be made pursuant to the Contract.

16.2. Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its Bid, with the exception of any price adjustments authorized in the SCC.

17. Terms of Payment

17.1. The Contract Price, including any Advance Payments, if applicable, shall be paid as specified in the SCC.

17.2. The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 13 and upon fulfilment of all the obligations stipulated in the Contract.

17.3. Payments shall be made promptly by the Purchaser, no later than thirty (30) days after the submission of verified invoice or request for payment by the Supplier, and the Purchaser has accepted it.

17.4. The currencies in which payments shall be made to the Supplier under this Contract shall be those in which the Bid Price is expressed.

17.5. In the event that the Purchaser fails to pay the Supplier any payment by its due date or within the period set forth in the SCC, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate shown in the SCC, for the period of delay until payment has been made in full, whether before or after judgment or arbitrage award.

18. Taxes and Duties

18.1. For Goods manufactured outside Bhutan the Supplier shall bear and pay all applicable taxes, stamp duties, licence fees and other similar levies imposed outside Bhutan.

18.2. For Goods manufactured within Bhutan the Supplier shall bear and promptly pay all applicable taxes, duties, licence fees and other similar levies incurred until delivery of the contracted Goods to the Purchaser.

18.3. If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in Bhutan the Purchaser shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.

19. Performance Security

19.1. The Supplier shall, within fifteen (15) working days of the notification of contract award, provide a Performance Security for the due performance of the Contract in the amount and currency specified in the SCC.

19.2. The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

19.3. The Performance Security shall be denominated in the currency (ies) of the Contract or in a freely convertible currency acceptable to the Purchaser, shall be valid until the successful completion of the Supplier's performance obligations under the Contract, including any warranty obligations, and shall be in one of the forms stipulated by the Purchaser in the SCC.

19.4. The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in the SCC,.

20. Copyright

20.1. The copyright in all drawings, documents and other materials containing data and information furnished to the Purchaser by the Supplier shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

21. Confidential Information

21.1. The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor(s) such documents, data and other information as it receives from the Purchaser to the extent required for the Subcontractor(s) to perform its/their work under the Contract, in which event the Supplier shall obtain from such Subcontractor(s) an undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 21.

21.2. The Purchaser shall not use such documents, data and other information received from the Supplier for any purposes unrelated to the Contract. Similarly, the Supplier shall not use such documents, data and other information received from the Purchaser for any purpose other than the design, procurement or other work and services required for the performance of the Contract.

21.3. The obligation of a party under GCC Sub-Clauses 21.1 and 21.2 above, however, shall not apply to information that:

(a) the Purchaser or Supplier needs to share with the RGoB or other institutions participating in the financing of the Contract;

(b) now or hereafter enters the public domain through no fault of that party;

(c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or

(d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.

21.4. The above provisions of GCC Clause 21 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.

21.5. The provisions of GCC Clause 21 shall survive completion or termination, for whatever reason, of the Contract.

22. Subcontracting

22.1. The supplier shall not subcontract, in whole or in part, their obligations under this Contract, except with the prior written consent of the purchaser.

22.2. Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.

23. Specifications and Standards

23.1. Technical Specifications and Drawings:

(a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards stipulated in Section VI, Schedule of Supply and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin.

(b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.

(c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the editions or the revised versions of such codes and standards shall be those specified in the Schedule of Supply. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 34.

24. Packing and Documents

24.1. The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case sizes and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

24.2. The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the SCC, and in any other instructions ordered by the Purchaser.

25. Insurance

25.1. Unless otherwise specified in the SCC the Goods supplied under the Contract shall be fully insured, in a freely convertible currency from an eligible country, against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery, in accordance with the applicable Inco-terms or in the manner specified in the SCC.

26. Transportation

26.1. Unless otherwise specified in the SCC, responsibility for arranging transportation of the Goods shall be in accordance with the specified Incoterms.

27. Inspections and Tests

27.1. At its own expense and at no cost to the Purchaser the Supplier shall carry out all such tests and/or inspections of the Goods and Related Services as are specified in the SCC.

27.2. The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place in Bhutan as specified in the SCC. Subject to GCC Sub-Clause 27.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.

27.3. The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 27.2, provided that the Purchaser bears all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all travelling and board and lodging expenses.

27.4. The Purchaser may require the Supplier to carry out any test and/ or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications, codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.

27.5. The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.

27.6. The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 27.4.

27.7. The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to GCC Sub-Clause 27.6, shall release the Supplier from any warranties or other obligations under the Contract.

28. Liquidated Damages

28.1. Except as provided for under GCC Clause 33, if the Supplier fails to deliver any or all of the Goods by the date(s) of delivery or fails to perform the Related Services within the period specified in the Contract, the Purchaser may, without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those SCC. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 36.

29. Warranty

29.1. The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

29.2. Subject to GCC Sub-Clause 23.1 (b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials and workmanship, under normal use in the conditions prevailing in Bhutan.

29.3. Unless otherwise specified in the SCC, the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the SCC, or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.

29.4. The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.

29.5. Upon receipt of such notice, the Supplier shall, within the period specified in the SCC, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.

29.6. If, having been notified, the Supplier fails to remedy the defect within the period specified in the SCC, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

30. Patent Indemnity

30.1. The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 30.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

(a) the installation of the Goods by the Supplier or the use of the Goods in Bhutan; and

(b) the sale in any country of the products produced by the Goods. Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or reasonably to be inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant or materials not supplied by the Supplier, pursuant to the Contract.

30.2. If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 30.1, the Purchaser shall promptly give the Supplier notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

30.3. If the Supplier fails to notify the Purchaser within thirty (30) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.

30.4. The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

30.5. The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification or other documents or materials provided or designed by or on behalf of the Purchaser.

31. Limitation of Liability

31.1. Except in cases of gross negligence or willful misconduct:

(a) neither party shall be liable to the other party, whether in contract, tort or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser; and

(b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Supplier to indemnify the Purchaser with respect to patent infringement.

32. Change in Laws and Regulations

32.1. Unless otherwise specified in the Contract if, after the date thirty (30) days prior to the date of Bid submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated or changed in Bhutan (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery/ Completion Schedule and/or the Contract Price, then such Delivery/ Completion Schedule and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Sub-Clause 16.2.

33. Force Majeure

33.1. The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

33.2. For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

33.3. If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

34. Change Orders and Contract Amendments

34.1. The Purchaser may at any time order the Supplier through notice in accordance with GCC Clause 8 to make changes within the general scope of the Contract in any one or more of the following:

(a) drawings, designs or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;

(b) the method of shipment or packing;

(c) the place of delivery; and

(d) the Related Services to be provided by the Supplier.

34.2. If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Purchaser's change order.

34.3. Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

34.4. Subject to the above, no variation in or modification of the terms of the Contract shall be made except by written amendment by the parties.

35. Extensions of Time

35.1. If at any time during performance of the Contract the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 13, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

35.2. Except in case of Force Majeure, as provided under GCC Clause 33, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 28, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 35.1.

36. Termination

36.1. Termination for Default

(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:

(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Sub-Clause 35.1; or

(ii) if the Supplier fails to perform any other obligation under the Contract; or

(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in GCC Clause 3, in competing for or in executing the Contract.

(b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 36.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

36.2. Termination for Insolvency

The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination shall be without compensation to the Supplier, provided that such termination shall not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser.

36.3. Termination for Convenience.

(a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

(b) The Goods that are complete and ready for shipment within thirty (30) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:

(i) to have any portion completed and delivered at the Contract terms and prices; and/or

(ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

37. Export Restriction

37.1. Notwithstanding any obligation under the Contract to complete all export formalities, any export restrictions attributable to the Purchaser, to Bhutan, or to the use of the products/Goods, systems or services to be supplied, which arise from trade regulations from a country supplying those products/Goods, systems or services, and whichsubstantiallyimpedethe Supplierfrommeetingitsobligations under the Contract, shall release the Supplier from the obligation to provide deliveries or services, always provided, however, that the Supplier can demonstrate to the satisfaction of the Purchaser that it has completed all formalities in a timely manner, including applying for permits, authorizations and licenses necessary for the export of the products/Goods, systems or services under the terms of the Contract. Termination of the Contract on this basis shall be for the Purchaser's convenience pursuant to Sub-Clause 36.3.

SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract (SCC) shall supplement and/or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC. *[The Purchaser shall select and insert the appropriate wording using the sample below or other acceptable wording and delete the text in italics.]*

1.1 (k)	The Project Site(s)/Final Destination(s) is/are ***NHDCL Store, Phuentsholing or within Phuentsholing Municipality***
1.1 (l)	The Purchaser is: ***Chief Executive Officer***
GCC 4.2 (a)	The meaning of the trade terms shall be as prescribed by Inco-terms. If the meaning of any trade term and the rights and obligations of the parties there under shall not be as prescribed by Inco-terms, they shall be as prescribed by: ***DDP***
GCC 4.2 (b)	The version of Inco-terms shall be: ***Delivered Duty Paid***
GCC 5.1	The language shall be: ***English***
GCC 8.1	For **notices**, the addresses shall be: For the Purchaser: Attention: ***Chief Executive Officer*** Address: ***Chief Executive Officer, NHDCL, Thimphu, Bhutan*** **Telephone:** ***00975-2-323147/332734/332735*** **Facsimile number: 00975-2-331703** **E-mail address: ud.gautam@nhdcl.bt**
GCC 9	The governing law shall be the law of the Kingdom of Bhutan.
GCC 10.2	The rules of procedure for arbitration proceedings pursuant to GCC Sub-Clause 10.2 shall be as follows: *[The Bidding Documents should contain one clause to be retained in the event of a Contract with a foreign Supplier and one clause to be retained in the event of a Contract with a Bhutanese Supplier. At the time of finalizing the Contract, the respective applicable clause should be retained in the Contract. The following explanatory note should therefore be inserted as a header to GCC Sub-Clause 10.2 in the Bidding Documents.*

	(b) Contract with a Bhutanese Supplier: In the case of a dispute between the Purchaser and a Bhutanese Supplier, the dispute shall be referred to adjudication or arbitration in accordance with the laws of Bhutan.
GCC 13.1	Details of Shipping and other Documents to be furnished by the Supplier are *[insert the required documents, such as a negotiable bill of lading, a non-negotiable sea way bill, an airway bill, a railway consignment note, a road consignment note, insurance certificate, Manufacturer's or Supplier's warranty certificate, inspection certificate issued by nominated inspection agency, Supplier's factory shipping details etc]*. The above documents shall be received by the Purchaser before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.

GCC 16.2	The prices charged for the Goods supplied and the related Services performed *"**shall not**,"* be adjustable.
GCC 17.1	***Sample provision*** GCC 17.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows: **Payment for Goods supplied from abroad:** Payment of the foreign currency portion shall be made in ***Not Applicable*** (i) **Advance Payment:** Ten percent (10%) of the Contract Price shall be paid within thirty (30) days of signing of the Contract, and upon submission of a claim and an advance payment guarantee for the equivalent amount valid until the Goods are delivered and in the form provided in the Bidding Documents. **(*Not Applicable)***
	(ii) **On Shipment:** Eighty percent (80%) of the Contract Price of the Goods shipped shall be paid through irrevocable confirmed letter of credit opened in favor of the Supplier in a bank in its country, upon submission of the documents specified in GCC Clause 13. **(*Not Applicable)*** (iii) **On Acceptance:** Ten percent (10%) of the Contract Price of the Goods received shall be paid within thirty (30) days of receipt of the Goods upon submission of claim supported by the acceptance certificate issued by the Purchaser. Payment of the local currency portion shall be made in Bhutanese Ngultrum (BTN) within thirty (30) days of presentation of a claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed. **Payment for Goods and Services supplied from within Bhutan:** Payment for Goods and Services supplied from within Bhutan shall be made in Ngultrum *[currency]*, as follows: (i) **Advance Payment:** Ten percent (10%) of the Contract Price shall be paid within thirty (30) days of signing of the Contract against a simple receipt and an advance payment guarantee for the equivalent amount and in the form provided in the Bidding Documents. **(*Not Applicable)*** (ii) **On Delivery:** Eighty percent (80%) of the Contract Price shall be paid on receipt of the Goods and upon submission of the documents specified in GCC Clause 13. **(*Not Applicable)*** (iii) **On Acceptance:** The remaining ten percent (10%) of the Contract Price shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate for the respective delivery issued by the Purchaser.
GCC 17.5	The payment delay period after which the Purchaser shall pay interest to the supplier shall be *[60]* days from the date that payment should have been made upon submission of supply bill (s) in complete shape and order to the purchaser. However, if the delay is caused due to discrepancy in the bill, the interest component shall not be applied. The interest rate that shall be applied is*[applicable existing interest rate] % per annum in normal condition*

GCC 19.1	The amount of the Performance Security shall be: ***Nu.100,000.00 (Hundred Thousand) lump sum*** *The bidder qualified for award of contract shall furnish performance security equivalent to* ***Nu.100,000.00 (Hundred Thousand) lump sum*** *if required more it will be asked at the time of procurement.*
GCC 19.3	The types of acceptable Performance Securities are: (i) Unconditional bank guarantee issued by financial institution located in Bhutan and acceptable to the Purchaser, in the form provided for in the Contract or in any other form acceptable to the Purchaser, or (ii) Cash warrant, or (iii) Demand draft.
GCC 19.4	Discharge of Performance Security shall take place: ***Performance security shall be returned only upon successful completion of the supply contract by 31th December 2023***
GCC 24.2	The packing, marking and documentation within and outside the packages shall be: ***Where applicable the material will have to be supplied in proper standard packing of the manufacturer labelled with necessary product information.***
GCC 25.1	The insurance coverage shall be as specified in the Inco-terms. If not in accordance with Inco-terms, insurance shall be as follows: ***The Supplier is require insurance including storage as shall be specified in the Contract, shall be arranged by the Supplier, and related costs shall be included in the Contract Price.***
GCC 26.1	Responsibility for transportation of the Goods shall be as specified in the Inco-terms. If not in accordance with Inco-terms, responsibility for transportation shall be as follows: ***The Supplier is required under the Contract to transport the Goods to a specified place of final destination, including insurance and storage as shall be specified in the Contract, shall be arranged by the Supplier, and related costs shall be included in the Contract Price.***
GCC 27.1	The inspections and tests shall be: ***inspection & test if necessary shall be carried out by the concern official from NSB or as assigned by the NHDCL prior to the acceptance of good.***
GCC 27.2	Inspections and tests shall be conducted at: ***Inspection shall be done at the point of delivery.***
GCC 28.1	The liquidated damages shall be: ***[0.1] %***per day on the total order value.
GCC 28.1	The maximum amount of liquidated damages shall be: ***[10] %. maximum ten percent of the total order value.***
GCC 29.3	The period of validity of the Warranty shall be: ***One year or more from the date of supply].(365 days)*** For the purposes of the Warranty the place(s) of final destination(s) shall be: ***NHDCL, Stores, Phuentsholing or within Phuentsholing Municipality.***
GCC 29.5 and 29.6	The period for repair or replacement shall be: ***[15]*** **days** or as specified in rejection note.
**	***The purchaser reserves the rights to procure from other agencies in case of bulk requirement or any conditional cases. The purchaser may also purchase from government agencies.***

	The quoted price shall be inclusive of all the service charges and any other costs involved and nothing extra shall be paid.

Attachment: Price Adjustment Formula

If, in accordance with GCC 16.2, prices shall be adjustable, the following method shall be used to calculate the price adjustment:

16.2. Prices payable to the Supplier, as stated in the Contract, shall be subject to adjustment during performance of the Contract to reflect changes in the cost of labor and material components in accordance with the formula:

$$P_1 = P_0 \left[a + \frac{bL_1}{L_0} + \frac{cM_1}{M_0}\right] - P_0$$

$$a+b+c = 1$$

in which:

P_1	=	adjustment amount payable to the Supplier.
P_0	=	Contract Price (base price).
a	=	fixed element representing profits and overheads included in the Contract Price and generally in the range of five (5) to fifteen percent (15%).
b	=	estimated percentage of labor component in the Contract Price.
c	=	estimated percentage of material component in the Contract Price.
L_0, L_1	=	labor indices applicable to the appropriate industry in the country of origin on the base date and date for adjustment, respectively.
M_0, M_1	=	material indices for the major raw material on the base date and date for adjustment, respectively, in the country of origin.

The coefficients a, b, and c as specified by the Purchaser are as follows:

a = *[insert value of coefficient]*
b = *[insert value of coefficient]*
c = *[insert value of coefficient]*

The Bidder shall indicate the source of the indices and the base date indices in its bid.

Base date = thirty (30) days prior to the deadline for submission of the bids.

Date of adjustment = *[insert number of weeks]* weeks prior to date of shipment (representing the mid-point of the period of manufacture).

The above price adjustment formula shall be invoked by either party subject to the following further conditions:

(a) No price adjustment shall be allowed beyond the original delivery date sunless specifically stated in the extension letter. As a rule, no price adjustment shall be allowed for periods of delay for which the Supplier is entirely responsible. The Purchaser will, however, be entitled to any decrease in the prices of the Goods and Services subject to adjustment.

(b) If the currency in which the Contract Price P_0 is expressed is different from the currency of origin of the labor and material indices, a correction factor will be applied to avoid incorrect adjustments of the Contract Price. The correction factor shall correspond to

the ratio of exchange rates between the two currencies on the base date and the date for adjustment as defined above.

(c) No price adjustment shall be payable on the portion of the Contract Price paid to the Supplier as advance payment.

SECTION IX. CONTRACT FORMS

TABLE OF FORMS

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Performance Security **94**
Bank Guarantee for Advance Payment **95**
Letter of Acceptance **96**

[Type text]

CONTRACT AGREEMENT

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

Contract Agreement

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS CONTRACT AGREEMENT made on the *[…….],*

BETWEEN

(1) *[**Chief Executive Officer, National Housing Development Corporation Ltd. Phuentsholing.*** (hereinafter called "the Purchaser"), and

(2) *[……..…],* a corporation incorporated under the laws of kingdom of Bhutan and having its principal place of business at [……] (hereinafter called "the Supplier").

WHEREAS the Purchaser invited Bids for certain Goods and ancillary services, viz., *[Procurement of Hardware Items]* and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of ***[on framework contract basis for One year (1/01/2023-31/12/2023)at the rate as per the price schedule attached in the Notification of Award]*** (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract, viz.:

(a) This Contract Agreement;
(b) The Special Conditions of Contract;
(c) The General Conditions of Contract;
(d) Technical Requirements (including Schedule of Supply and Technical Specifications);
(e) The Supplier's Bid and original Price Schedules;
(f) The Purchaser's Notification of Award of Contract;
(g) The form of Performance Security;
(i) *[Delivery Schedule]*

3. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.

4. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

5. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Related Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Bhutan on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed: *[…….]*
in the capacity of *[…….]*

[Type text]
in the presence of *[…….]*
[……]

For and on behalf of the Supplier

Signed: *[…….]*
in the capacity of *[…….]*

in the presence of *[…….]*
[…….]

[Type text]

PERFORMANCE SECURITY

[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated]

Date: *[insert date (as day, month, and year) of Bid submission]*
IFB No. and title*: [insert no. and title of bidding process]*

Bank's Branch or Office: *[insert complete name of Guarantor]*

Beneficiary: *[insert complete name of Purchaser]*

PERFORMANCE GUARANTEE No.: *[insert Performance Guarantee number]*

We have been informed that *[insert complete name of Supplier]* (hereinafter called "the Supplier") has entered into Contract No. *[insert number]* dated *[insert day and month], [insert year]* with you, for the supply of *[description of Goods and related Services]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a Performance Guarantee is required.

At the request of the Supplier, we hereby irrevocably undertake to pay you any sum(s) not exceeding *[insert amount(s)*[22] *in figures and words]* upon receipt by us of your first demand in writing declaring the Supplier to be in default under the Contract, without cavil or argument, or you needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This Guarantee shall expire no later than the *[insert number]* day of *[insert month] [insert year]*,[23] and any demand for payment under it must be received by us at this office on or before that date. We agree to a one-time extension of this Guarantee for a period not to exceed *[six months] [one year]*, in response to the Purchaser's written request for such extension, such request to be presented to us before the expiry of the Guarantee.

[signatures of authorized representatives of the bank and the Supplier]

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22 *The Bank shall insert the amount(s) specified in the SCC and denominated, as specified in the SCC, either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Purchaser.*

23 *Date established in accordance with Clause 19.4 of the General Conditions of Contract ("GCC"). The Purchaser should note that in the event of an extension of the time to perform the Contract, the Purchaser would need to request an extension of this Guarantee from the Bank. Such request must be in writing and must be made prior to the expiration date established in the Guarantee.*

[Type text]

BANK GUARANTEE FOR ADVANCE PAYMENT

[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated.]

Date: *[insert date (as day, month, and year) of Bid submission]*
IFB No. and title: *[insert number and title of bidding process]*

[bank's letterhead]

Beneficiary: *[insert legal name and address of Purchaser]*

ADVANCE PAYMENT GUARANTEE No.: *[insert Advance Payment Guarantee no.]*

We, *[insert legal name and address of bank],* have been informed that *[insert complete name and address of Supplier]* (hereinafter called "the Supplier") has entered into Contract No. *[insert number]* dated *[insert date of Contract]* with you, for the supply of *[insert types of Goods to be delivered]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment is to be made against an advance payment guarantee.

At the request of the Supplier, we hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[insert amount(s)*[24] *in figures and words]* upon receipt by us of your first demand in writing declaring that the Supplier is in breach of its obligation under the Contract because the Supplier used the advance payment for purposes other than toward delivery of the Goods.

It is a condition for any claim and payment under this Guarantee to be made that the advance payment referred to above must have been received by the Supplier in its account *[insert number and domicile of the account]*

This Guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until *[insert date*[25]*].* We agree to a one-time extension of this Guarantee for a period not to exceed *[six months][one year],* in response to the Purchaser's written request for such extension, such request to be presented to us before the expiry of the Guarantee.

_____

[signature(s) of authorized representative(s) of the bank]

24 *The bank shall insert the amount(s) specified in the SCC and denominated, as specified in the SCC, either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Purchaser.*

25 *Insert the Delivery date stipulated in the Contract Delivery Schedule. The Purchaser should note that in the event of an extension of the time to perform the Contract, the Purchaser would need to request an extension of this Guarantee from the bank. Such request must be in writing and must be made prior to the expiration date established in the Guarantee*

[Type text]

LETTER OF ACCEPTANCE

[use letterhead paper of the Purchaser]

[date]

To: *[name and address of the Supplier]*

Subject: ***Notification of Award Contract No.*** . . . .

This is to notify you that your Bid dated ***[insert date]*** for supply of the ***[insert name of the contract and identification number, as given in the SCC]*** for the Accepted Contract Amount of ***[insert amount in numbers and words and name of currency]***, as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by our Agency or (*for item-wise contract insert list of items price schedule as attachment)*

You are requested to furnish the Performance Security within 15 days in accordance with the Conditions of Contract, using for that purpose the of the Performance Security Form included in Section X, Contract Forms, of the bidding document.

Authorized Signature: _____
Name and Title of Signatory: _____
Name of Agency: _____

Attachment: Contract Agreement

[Type text]

National Housing Development Corporation Limited
Thimphu: Bhutan

NHDCL/CS/PRO-5/2022/2373 Dated 19/11/2022

Notice Inviting Tender

The National Housing Development Corporation Limited invites sealed bids from National Suppliers/Dealers with established offices/Enterprises in Phuentsholing for supply & delivery of the below package for year 2023

1. Supply of Hardware Items (Civil, Electrical, Plumbing& Tools & Plants) to the NHDCL, Regional Office , Phuentsholing (Package-I)

The Tender Document shall be downloaded from NHDCL Website (www.nhdcl.bt) and a notification for participation be emailed to ***needup.dorji@nhdcl.bt***

Last date of submission of Tender to Head Office, NHDCL: 19/12/2022

For further details visit www.nhdcl.bt or contact Procurement Section at 02-323147 during office hours.

Chief Executive Officer
NHDCL

Chief Executive Officer
National Housing Development Corporation Ltd
Thimphu : Bhutan

Annexure-I
LIST OF MATERIALS FOR CIVIL ITEMS FOR THE YEAR 2023

The brand quoted for Equivalent should be mentioned in Remarks. If not mentioned, the brand will be assumed as the one specified by the purchaser.

No.	DESCRIPTION / SPECIFICATION OF ITEM	BRAND	UNIT	RATE	REMARKS
1.1	**PAINTS**				
1.1.1	Ready made Lime 1 kg	Suriacem or equivalent.	Packet		
1.1.2	Readymade Lime 5 kg	Suriacem or equivalent.	Packet		
1.1.3	Ready made Lime 10 kg	Suriacem or equivalent.	Packet		
1.1.4	Ready made Lime 25 kg	Suriacem or equivalent.	Packet		
1.1.5	Oil bound washable distemper (all colour)	Shalimar /Snowcem or equivalent	1 kg.		
1.1.6	Oil bound washable distemper (all colour)	Shalimar /Snowcem or equivalent	5 kg.		
1.1.7	Oil bound washable distemper (all colour)	Shalimar /Snowcem or equivalent	10 kg.		
1.1.8	Oil bound washable distemper (all colour)	Shalimar /Snowcem or equivalent	20 kg		
1.1.9	Oil bound washable distemper (all colour)	Asian, Berger, Nerolac or equivalent	1 kg.		
1.1.10	Oil bound washable distemper (all colour)	Asian, Berger, Nerolac or equivalent	5 kg.		
1.1.11	Oil bound washable distemper (all colour)	Asian, Berger, Nerolac or equivalent	10 kg.		
1.1.12	Oil bound washable distemper (all colour)	Asian, Berger, Nerolac or equivalent	20 kg		
1.1.13	Plastic emulsion paint(exterior-all colours)	Shalimar or equivalent	1 ltr.		
1.1.14	Plastic emulsion paint(exterior-all colours)	Shalimar or equivalent	4 ltr.		
1.1.15	Plastic emulsion paint(exterior-all colours)	Shalimar or equivalent	20 ltr.		
1.1.16	Plastic emulsion paint(interior-all colours)	Shalimar or equivalent	1 ltr.		
1.1.17	Plastic emulsion paint(interior-all colours)	Shalimar or equivalent	4 ltr.		
1.1.18	Plastic emulsion paint(interior-all colours)	Shalimar or equivalent	20 ltr.		
1.1.19	Plastic emulsion paint (Sugar Brown- code 8582)	Berger, Nerolac or equivalent	20 ltr.		
1.1.20	Pink primer (colour)	Shalimar or equivalent	1 ltr.		
1.1.21	Pink primer (colour)	Shalimar or equivalent	4 ltr.		
1.1.22	Pink primer (colour)	Shalimar or equivalent	20 ltr.		
1.1.23	White primer	Shalimar or equivalent	1 ltr.		
1.1.24	White primer	Shalimar or equivalent	4 ltr.		
1.1.25	White primer	Shalimar or equivalent	20 ltr.		
1.1.26	Synthetic enamel paint (white)	Shalimar or equivalent	1 ltr.		
1.1.27	Synthetic enamel paint (white)	Shalimar or equivalent	4 ltr.		
1.1.28	Synthetic enamel paint (white)	Shalimar or equivalent	20 ltr.		
1.1.29	Synthetic enamel paint (colour)	Shalimar or equivalent	1 ltr.		

1.1.30	Synthetic enamel paint (colour)	Shalimar or equivalent	4 ltr.		
1.1.31	Synthetic enamel paint (colour)	Shalimar or equivalent	20 ltr.		
1.1.32	Synthetic enamel paint (white)	Asian, Berger, Nerolac or equivalent	1 ltr.		
1.1.33	Synthetic enamel paint (white)	Asian, Berger, Nerolac or equivalent	4 ltr.		
1.1.34	Synthetic enamel paint (white)	Asian, Berger, Nerolac or equivalent	20 ltr.		
1.1.35	Synthetic enamel paint (colour)	Shalimar or equivalent	1 ltr.		
1.1.36	Synthetic enamel paint (colour)	Shalimar or equivalent	4 ltr.		
1.1.37	Synthetic enamel paint (colour)	Shalimar or equivalent	20 ltr.		
1.1.38	Red /Green oxide primer	Shalimar or equivalent	1 ltr.		
1.1.39	Red /Green oxide primer	Shalimar or equivalent	4 ltr.		
1.1.40	Red /Green oxide primer	Shalimar or equivalent	20 ltr.		
1.1.41	Aluminium paint	Shalimar or equivalent	1/2 ltr.		
1.1.42	Aluminium paint	Shalimar or equivalent	1 ltr.		
1.1.43	Aluminium paint	Shalimar or equivalent	4 ltr.		
1.1.44	Roof paint, Red, Green	Shalimar or equivalent	1 ltr.		
1.1.45	Roof paint, Red, Green	Shalimar or equivalent	4 ltr.		
1.1.46	Roof paint, Red, Green	Shalimar or equivalent	20ltr.		
1.1.47	Wood preservative	Standard Quality	1 ltr.		
1.1.48	Terpentine oil	Standard Quality	1 ltr.		
1.1.49	Terpentine oil	Standard Quality	5 ltr		
1.1.50	Terpentine oil	Standard Quality	20 ltr.		
1.1.51	Pellamatti	Standard Quality	Kg.		
1.1.52	Red oxide powder Green, Red	Standard Quality	Kg.		
1.1.53	Cement primer (W/T)	Standard Quality	Kg.		
1.1.54	Cement primer (oil base)	Standard Quality	Kg.		
1.1.55	Snocem	Standard Quality	5 kg.		
1.1.56	Snocem	Standard Quality	25 kg.		
1.1.57	Snocem	Standard Quality	50 kg.		
1.1.58	Spirit	Standard Quality	Ltr.		
1.1.59	Thumb brand colour powder	Standard Quality	Pkt.		
1.1.60	Bhutanese colour mati Red	Standard Quality	Kg.		
1.1.61	Bhutanese colour mati Black	Standard Quality	Kg.		
1.1.62	Bhutanese colour mati Yellow	Standard Quality	Kg.		
1.1.63	Bhutanese colour mati white	Standard Quality	Kg.		
1.1.64	Touch wood	Wood Fin/Swagat/Max	Ltr.		
1.1.65	Golden powder 200 gram	Standard Quality	Per Pkt.		
1.1.66	Silver powder 200 gram	Standard Quality	Per Pkt.		
1.1.67	White wax	Standard Quality	Kg.		
1.1.68	Putty for wood	Standard Quality	Kg.		
1.1.69	Glass/White putty	Standard Quality	Kg.		
1.1.70	Black putty	Standard Quality	Kg.		
1.1.71	Wall Putty	Standard Quality	1 kg.		
1.1.72	Wall Putty	Standard Quality	5 Kg.		
1.1.73	Wall Putty	Standard Quality	10 Kg.		
1.1.74	Wall Putty	Standard Quality	20 Kg.		
1.1.75	Wall Putty	Standard Quality	40 kg		
1.1.76	Hessian cloth	Standard Quality	Mtr.		

1.1.77	Sand paper (A4 size)	Standard Quality	No.		
1.1.78	Emery cloth paper (A4 Size)	Standard Quality	No.		
1.1.79	Lime brush - (6")	Standard Quality	Each		
1.1.80	Lime brush - (8")	Standard Quality	Each		
1.1.81	Roller brush - (4")	Standard Quality	Each		
1.1.82	Roller brush - (6")	Standard Quality	Each		
1.1.83	Roller brush - (8")	Standard Quality	Each		
1.1.84	Flat brush	Standard Quality	Each		
1.1.85	Writing brush No.000	Standard Quality	Each		
1.1.86	Writing brush No.00	Standard Quality	Each		
1.1.87	Writing brush No.01 to 12	Standard Quality	Each		
1.1.88	Fevicol - Adhesive - 1/2 kg.	Standard Quality	Each		
1.1.89	Fevicol - Adhesive - 1 kg.	Standard Quality	Each		
1.1.90	Fevicol - DDL - 1/2 kg	Standard Quality	Each		
1.1.91	Fevicol - DDL - 1 kg	Standard Quality	Each		
1.1.92	Fevicol - Adhesive - 5 kg.	Standard Quality	Each		
1.1.93	Painting brush (Bhutanese painting)	Standard Quality	Inch		
1.1.94	Painting brush - Nylon	Standard Quality	Inch		
1.1.95	Mansion polish - 1/2 kg	Standard Quality	Tin		
1.1.96	Mansion polish - 1 kg	Standard Quality	Tin		
1.1.97	Dentrite - 1/4 ltr.	Standard Quality	Tin		
1.1.98	Dentrite - 1/2 ltr.	Standard Quality	Tin		
1.1.99	Dentrite - 1 ltr	Standard Quality	Kg.		
1.1.100	Animal Glue	Standard Quality	Kg.		
1.1.101	Ducco Thinner	Standard Quality	Ltr.		
1.1.102	Fabric Colour (All Colour)	Standard Quality	Ltr.		
1.1.103	Teak Polish (1 ltr)	Swagat/Wood Fin/Max	Each		
1.1.104	Teak Polish (4 ltrs)	Swagat/Wood Fin/Max	Each		
1.1.105	Walnut Polish (1 ltr)	Swagat/Wood Fin/Max	Each		
1.1.106	Walnut Polish (4 ltr)	Swagat/Wood Fin/Max	Each		
1.1.107	Glossy Polish (1 ltr.)	Swagat/Wood Fin/Max	Each		
1.1.108	Glossy Polish (4 ltrs.)	Swagat/Wood Fin/Max	Each		
1.1.109	Bangkok paint	Standard Quality	Ltr.		
1.1.110	Oil bound washable distemper (Sugar Brown colour code 8582)	Berger, Nerolac or equivalent	Ltr.		
1.2	**BOARD/ PLY**				
1.2.1	Commercial ply - (2-3mm)	Standard Quality	Sft.		
1.2.2	Commercial ply - 4mm	Standard Quality	Sft.		
1.2.3	Commercial ply - 6mm	Standard Quality	Sft.		
1.2.4	Commercial ply - 8mm	Standard Quality	Sft.		
1.2.5	Commercial ply - 10mm	Standard Quality	Sft.		
1.2.6	Commercial ply - 12 mm	Bhutan Product	Sft.		
1.2.7	Commercial ply - (2-3mm)	Bhutan Product	Sft.		
1.2.8	Commercial ply - 4mm	Bhutan Product	Sft.		
1.2.9	Commercial ply - 6mm	Bhutan Product	Sft.		
1.2.10	Commercial ply - 8mm	Bhutan Product	Sft.		

1.2.11	Commercial ply - 10mm	Bhutan Product	Sft.		
1.2.12	Commercial ply - 12 mm	Bhutan Product	Sft.		
1.2.13	Teak ply - 4mm	Standard Quality	Sft.		
1.2.14	Teak ply - 6mm	Standard Quality	Sft.		
1.2.15	Hard board - 10 mm	Standard Quality	Sft.		
1.2.16	A.C. sheet - 4'x4'x4mm	Standard Quality	Sft.		
1.2.17	Block board with commercial ply on bothsides -18mm	BBPL/GWMC	Sft.		
1.2.18	Block board with commercial ply on bothsides -12mm	BBPL/GWMC	Sft.		
1.2.19	Block board with one side commercail ply and other side teak ply 18mm	BBPL/GWMC	Sft.		
1.2.20	Block board with one side commercail ply and other side teak ply 40mm	BBPL/GWMC	Sft.		
1.2.21	Block board with one side commercail ply and other side teak ply 12mm	BBPL/GWMC/Equivalent	Sft.		
1.2.22	Particle board - 8mm	BBPL/GWMC/Equivalent	Sft.		
1.2.23	Particle board -10mm	BBPL/GWMC/Equivalent	Sft.		
1.2.24	Particle board 12mm	BBPL/GWMC/Equivalent	Sft.		
1.2.25	Particle board 18mm	BBPL/GWMC/Equivalent	Sft.		
1.2.26	18mm thick pre-laminated block board both side	BBPL/GWMC/Equivalent	Sft.		
1.2.27	12mm thick Pre-laminated block board both side	BBPL/GWMC/Equivalent	Sft.		
1.2.28	10mm thick Pre-laminated block board both side	BBPL/GWMC/Equivalent	Sft.		
1.2.29	8mm thick Pre-Laminated particle board both side	BBPL/GWMC/Equivalent	Sft.		
1.2.30	Block board with commercial ply on bothsides -18mm	Assam Tiger/Equivalent	Sft.		
1.2.31	Block board with commercial ply on bothsides -12mm	Assam Tiger/Equivalent	Sft.		
1.2.32	Block board with one side commercail ply and other side teak ply 18mm	Assam Tiger/Equivalent	Sft.		
1.2.33	Block board with one side commercail ply and other side teak ply 40mm	Assam Tiger/Equivalent	Sft.		
1.2.34	Block board with one side commercail ply and other side teak ply 12mm	Assam Tiger/Equivalent	Sft.		
1.2.35	Particle board - 8mm	Assam Tiger/Equivalent	Sft.		
1.2.36	Particle board -10mm	Assam Tiger/Equivalent	Sft.		
1.2.37	Particle board 12mm	Assam Tiger/Equivalent	Sft.		
1.2.38	Particle board 18mm	Assam Tiger/Equivalent	Sft.		

1.2.39	18mm thick pre-laminated block board both side	Assam Tiger/Equivalent	Sft.		
1.2.40	12mm thick Pre-laminated block board both side	Assam Tiger/Equivalent	Sft.		
1.2.41	10mm thick Pre-laminated block board both side	Assam Tiger/Equivalent	Sft.		
1.2.42	8mm thick Pre-Laminated particle board both side	Assam Tiger/Equivalent	Sft.		
1.2.43	50mm thick Thermocol	Standard Quality	Sft.		
1.2.44	25mm thick Thermocol	Standard Quality	Sft.		
1.2.45	Sunmica 8'x4'(Plain)	Standard Quality	Sft.		
1.2.46	Sunmica 8'x4'(With Design)	Standard Quality	Sft.		
1.2.47	water proof ply board 6 mm	Standard Quality	Sft.		
1.2.48	water proof ply board 8 mm	Standard Quality	Sft.		
1.2.49	water proof ply board 10 mm	Standard Quality	Sft.		
1.2.50	water proof ply board 12mm	Standard Quality	Sft.		
1.2.51	water proof ply board 18mm	Standard Quality	Sft.		
1.2.52	water proof shuttering ply 12mm	Standard Quality	Sft.		
1.2.53	water proof shuttering ply 10mm	Standard Quality	Sft.		
1.2.54	water proof shuttering ply 6mm	Standard Quality	Sft.		
1.2.55	V-Board cement based-8mm	Standard Quality	Sft.		
1.2.56	V-Board cement based-10mm	Standard Quality	Sft.		
1.2.57	V-Board cement based-12mm	Standard Quality	Sft.		
1.2.58	V-Board cement based-18mm	Standard Quality	Sft.		
1.2.59	MDF board (water proof)-10mm	Standard Quality	Sft.		
1.2.60	MDF board (water proof)-12mm	Standard Quality	Sft.		
1.2.61	MDF board (water proof)-18mm	Standard Quality	Sft.		
1.2.62	Gypsum board solid -6mm	Standard Quality	Sft.		
1.2.63	Gypsum board solid -8mm	Standard Quality	Sft.		
1.2.64	Gypsum board solid -10mm	Standard Quality	Sft.		
1.2.65	Gypsum board perforated -12mm	Standard Quality	Sft.		
1.2.66	Gypsum board perforated -10mm	Standard Quality	Sft.		
1.2.67	Gypsum board perforated -8mm	Standard Quality	Sft.		
1.2.68	Gypsum board perforated -6mm	Standard Quality	Sft.		
1.2.69	Bison Panel Board-20mm	Standard Quality	Sft.		
1.2.70	Bison Panel Board-18mm	Standard Quality	Sft.		
1.2.71	Bison Panel Board-12mm	Standard Quality	Sft.		
1.2.72	Bison Panel Board-10mm	Standard Quality	Sft.		
1.2.73	Bison Panel Board-8mm	Standard Quality	Sft.		
1.2.74	Bison Panel Board-6mm	Standard Quality	Sft.		
1.2.75	Phenolic Ply Wood- 12mm	Standard Quality	Sft.		
1.3	**WIRE MESH**				
1.3.1	Chicken wire mesh 3' width	Standard Quality	Mtr.		
1.3.2	Fly proof wire mesh 3' width	Standard Quality	Mtr.		

1.3.3	Fly proof wire mesh 4' width	Standard Quality	Mtr.		
1.3.4	Wiremesh thick type (3')	Standard Quality	Mtr.		
1.3.5	Wiremesh thick type (4')	Standard Quality	Mtr.		
1.3.6	Expended metal	Standard Quality	Sft.		
1.3.7	Welded mesh 1"x1" - 4mm Dia	Standard Quality	Sft.		
1.3.8	Welded mesh 3"x1" - 4mm Dia	Standard Quality	Sft.		
1.3.9	Welded mesh 3"x3" - 4mm Dia	Standard Quality	Sft.		
1.3.10	GI Chain link mesh 8 SWG X 50mm eye	Standard Quality	Sft.		
1.3.11	GI Chain link mesh 12 SWG X 50mm eye	Standard Quality	Sft.		
1.3.12	GI Chain link mesh 8 SWG X 75mm eye	Standard Quality	Sft.		
1.3.13	GI Chain link mesh 12 SWG X 75mm eye	Standard Quality	Sft.		
1.3.14	GI Chain link mesh 8 SWG X 100mm eye	Standard Quality	Sft.		
1.3.15	GI Chain link mesh 12 SWG X 100mm eye	Standard Quality	Sft.		
1.3.16	Geotextile net(Green)	Standard Quality	Sft.		
1.3.17	HDPE Geonet-biplaner-4mm	Standard Quality	Sft.		
1.3.18	HDPE Geonet-biplaner-8mm	Standard Quality	Sft.		
1.4	**DOOR WINDOW FITTINGS**				
1.4.1	Helical door spring	Standard Quality	Each		
1.4.2	Hydraulic door closer	Standard Quality	Each		
1.4.3	Godrej mortise lock - 6 lever	Standard Quality	Each		
1.4.4	Stainless Steel Mortise lock other brand - 6-lever	Godrej/Ramson/equivalent	Set		
1.4.5	Brass Mortise lock other brand - 6-lever	Godrej/Ramson/equivalent	Set		
1.4.6	M.S. Butt hinges - 2"	Standard Quality	Each		
1.4.7	M.S. Butt hinges - 3"	Standard Quality	Each		
1.4.8	M.S. Butt hinges - 4"	Standard Quality	Each		
1.4.9	M.S. Butt hinges - 5"	Standard Quality	Each		
1.4.10	M.S. Butt hinges - 6"	Standard Quality	Each		
1.4.11	MS Double Action Hinges 4"	Standard Quality	Each		
1.4.12	MS Double Action Hinges 5"	Standard Quality	Each		
1.4.13	MS Double Action Hinges 6"	Standard Quality	Each		
1.4.14	MS Tower bolt 2"	Standard Quality	Each		
1.4.15	MS Tower bolt - 3"	Standard Quality	Each		
1.4.16	MS Tower bolt - 4"	Standard Quality	Each		
1.4.17	MS Tower bolt - 5"	Standard Quality	Each		
1.4.18	MS Tower bolt - 6"	Standard Quality	Each		
1.4.19	MS Tower bolt - 8"	Standard Quality	Each		
1.4.20	MS Tower bolt - 10"	Standard Quality	Each		
1.4.21	MS Tower bolt - 12"	Standard Quality	Each		
1.4.22	MS Eye hook - 4"	Standard Quality	Each		
1.4.23	MS Eye hook - 5"	Standard Quality	Each		
1.4.24	MS Eye hook - 6"	Standard Quality	Each		
1.4.25	MS Eye hook - 8"	Standard Quality	Each		
1.4.26	MS handle - 2"	Standard Quality	Each		

1.4.27	MS handle - 3"	Standard Quality	Each		
1.4.28	MS handle - 4"	Standard Quality	Each		
1.4.29	MS handle - 5"	Standard Quality	Each		
1.4.30	MS handle - 6"	Standard Quality	Each		
1.4.31	MS. sliding bolt including nuts and bolts 6"	Standard Quality	Each		
1.4.32	MS. sliding bolt including nuts and bolts 8"	Standard Quality	Each		
1.4.33	MS. sliding bolt including nuts and bolts 10"	Standard Quality	Each		
1.4.34	MS. sliding bolt including nuts and bolts 12"	Standard Quality	Pkt.		
1.4.35	MS wooden screw - /2" (100pcs/pkt)	Standard Quality	Pkt		
1.4.36	MS wooden screw -3/4" (100pcs/pkt)	Standard Quality	Pkt		
1.4.37	MS wooden screw - 1" (100pcs/pkt)	Standard Quality	Pkt		
1.4.38	MS wooden screw - 11/4" (100pcs/pkt)	Standard Quality	Pkt		
1.4.39	MS wooden screw -1 1/2" (100pcs/pkt)	Standard Quality	Pkt		
1.4.40	MS wooden screw - 2" (100pcs/pkt)	Standard Quality	Pkt		
1.4.41	MS wooden screw -3" (100pcs/pkt)	Standard Quality	Pkt		
1.4.42	Gypsum screw (1/2" to 3")	Standard Quality	Pkt		
1.4.43	Aluminium handle 3"	Standard Quality	Each		
1.4.44	Aluminium handle 4"	Standard Quality	Each		
1.4.45	Aluminium handle 5"	Standard Quality	Each		
1.4.46	Aluminium handle 6"	Standard Quality	Each		
1.4.47	Aluminium sliding bolt 6"	Standard Quality	Each		
1.4.48	Aluminium sliding bolt 8"	Standard Quality	Each		
1.4.49	Aluminium sliding bolt 10 "	Standard Quality	Each		
1.4.50	Aluminium sliding bolt 12"	Standard Quality	Each		
1.4.51	Aluminium Tower bolt 4"	Standard Quality	Each		
1.4.52	Aluminium Tower bolt 6"	Standard Quality	Each		
1.4.53	Aluminium Tower bolt 8"	Standard Quality	Each		
1.4.54	Aluminium Tower bolt 10"	Standard Quality	Each		
1.4.55	Aluminium Tower bolt 12"	Standard Quality	Each		
1.4.56	Aluminium eye hook 4"	Standard Quality	Each		
1.4.57	Aluminium eye hook 5"	Standard Quality	Each		
1.4.58	Aluminium eye hook 6"	Standard Quality	Each		
1.4.59	CP Tower bolt " 3"	Standard Quality	Each		
1.4.60	CP Tower bolt " 4"	Standard Quality	Each		
1.4.61	CP Tower bolt " 5"	Standard Quality	Each		
1.4.62	CP Tower bolt " 6"	Standard Quality	Each		
1.4.63	CP Tower bolt " 5"	Standard Quality	Each		
1.4.64	CP Tower bolt " 5"	Standard Quality	Each		
1.4.65	CP Tower bolt " 5"	Standard Quality	Each		
1.4.66	CP Eye hook 4"	Standard Quality	Each		
1.4.67	CP Eye hook 6"	Standard Quality	Each		

1.4.68	CP Eye hook 8"	Standard Quality	Each		
1.4.69	CP handle - 4"	Standard Quality	Each		
1.4.70	CP handle - 5"	Standard Quality	Each		
1.4.71	CP handle - 6"	Standard Quality	Each		
1.4.72	CP Tower bolt - 4"	Standard Quality	Each		
1.4.73	CP Tower bolt - 5"	Standard Quality	Each		
1.4.74	CP Tower bolt - 6"	Standard Quality	Each		
1.4.75	CP Tower bolt - 8"	Standard Quality	Each		
1.4.76	CP Tower bolt -12"	Standard Quality	Each		
1.4.77	CP Eye hook 4"	Standard Quality	Each		
1.4.78	CP Eye hook 6"	Standard Quality	Each		
1.4.79	C.P. sliding bolt including nuts and bolts 6"	Standard Quality	Each		
1.4.80	C.P. sliding bolt including nuts and bolts 8"	Standard Quality	Each		
1.4.81	C.P. sliding bolt including nuts and bolts 10"	Standard Quality	Each		
1.4.82	C.P. sliding bolt including nuts and bolts 12"	Standard Quality	Each		
1.4.83	Brass Butt hinges - 2"	Standard Quality	Each		
1.4.84	Brass Butt hinges - 3"	Standard Quality	Each		
1.4.85	Brass Butt hinges - 4"	Standard Quality	Each		
1.4.86	Brass Butt hinges -5"	Standard Quality	Pkt.		
1.4.87	Brass Butt hinges -6"	Standard Quality	Pkt.		
1.4.88	Brass screw - 3/4"	Standard Quality	Pkt		
1.4.89	Brass screw - 1"	Standard Quality	Pkt		
1.4.90	Brass screw - 11/4"	Standard Quality	Pkt		
1.4.91	Brass screw - 11/2"	Standard Quality	Pkt		
1.4.92	Brass screw - 2"	Standard Quality	Pkt		
1.4.93	Brass screw - 3"	Standard Quality	Pkt		
1.4.94	Brass handle - 4"	Standard Quality	Each		
1.4.95	Brass handle - 6"	Standard Quality	Each		
1.4.96	Brass handle - 5"	Standard Quality	Each		
1.4.97	Brass tower bolt - 4"	Standard Quality	Each		
1.4.98	Brass tower bolt - 6"	Standard Quality	Each		
1.4.99	Brass tower bolt - 8"	Standard Quality	Each		
1.4.100	Brass tower bolt - 10"	Standard Quality	Each		
1.4.101	Brass tower bolt - 12"	Standard Quality	Set		
1.4.102	Brass sliding bolt including nuts and bolts - 6"	Standard Quality	Set		
1.4.103	Brass sliding bolt including nuts and bolts - 8"	Standard Quality	Set		
1.4.104	Brass sliding bolt including nuts and bolts - 10"	Standard Quality	Set		
1.4.105	Brass sliding bolt including nuts and bolts - 12"	Standard Quality	Pkt		
1.4.106	CP Nuts and bolts for sliding bolt of door	Standard Quality	Each		
1.4.107	Brass door knob	Standard Quality	Each		
1.4.108	Plastic door knob	Standard Quality	Each		
1.4.109	PVC Glass Bead 6mm	Standard Quality	Rft		
1.4.110	PVC Glass Bead 8mm	Standard Quality	Rft		

1.4.111	PVC Glass Bead 10mm	Standard Quality	Rft		
1.4.112	PVC Glass Bead 12mm	Standard Quality	Rft		
1.4.113	Brass drawer lock 2"	Standard Quality	Each		
1.4.114	Brass drawer lock 2 1/2"	Standard Quality	Each		
1.4.115	Brass drawer lock 3"	Standard Quality	Pkt.		
1.4.116	Panel pin 1/2"	Standard Quality	Pkt.		
1.4.117	Panel pin 3/4"	Standard Quality	Pkt.		
1.4.118	Panel pin 1"	Standard Quality	Kg.		
1.4.119	Wire Nails 1",11/2",2"	Standard Quality	Kg.		
1.4.120	Wire Nails 3",4",5",6"	Standard Quality	Kg.		
1.4.121	M.S. Bolts with nuts(2"- 8 ") long	Standard Quality	Kg.		
1.4.122	M.S. holding down bolts with nuts 12 "	Standard Quality	Kg		
1.4.123	Glass pane - 3mm	Standard Quality	Sft.		
1.4.124	Glass pane - 4mm	Standard Quality	Sft.		
1.4.125	Glass pane - 5mm	Standard Quality	Sft.		
1.4.126	Glass pane - 6mm	Standard Quality	Sft.		
1.4.127	Frosted glass - 3mm	Standard Quality	Sft.		
1.4.128	Frosted glass - 4mm	Standard Quality	Sft.		
1.4.129	Frosted glass - 5mm	Standard Quality	Sft.		
1.4.130	Frosted glass - 6mm	Standard Quality	Sft.		
1.4.131	One way glass 6mm	Standard Quality	Sft.		
1.4.132	One way glass 8mm	Standard Quality	Sft.		
1.4.133	One way glass 10mm	Standard Quality	Sft.		
1.4.134	One way glass 12mm	Standard Quality	Sft.		
1.4.135	Toughened Glass pane 8mm	Standard Quality	Sft.		
1.4.136	Toughened Glass pane 10mm	Standard Quality	Sft.		
1.4.137	Toughened Glass pane 12mm	Standard Quality	Sft.		
1.4.138	Toughened Glass pane 18mm	Standard Quality	Sft.		
1.4.139	Toughened Glass pane 20mm	Standard Quality	Sft.		
1.4.140	Brass ball catcher - 3/4"	Standard Quality	Each		
1.4.141	Brass ball catcher - 1"	Standard Quality	Each		
1.4.142	Brass Haps & Staple (latch) - 2 1/2"	Standard Quality	Each		
1.4.143	Brass Haps & Staple (latch) 3"	Standard Quality	Each		
1.4.144	Brass Haps & Staple (latch) 4"	Standard Quality	Each		
1.4.145	C.P. Haps & Staple (latch) - 2 1/2"	Standard Quality	Each		
1.4.146	C.P. Haps & Staple (latch) 3"	Standard Quality	Each		
1.4.147	C.P. Haps & Staple (latch) 4"	Standard Quality	Each		
1.5	**Stainless Steel fittings**				
1.5.1	Tower bolts 3 "	Standard Quality	Each		
1.5.2	Tower bolts 4 "	Standard Quality	Each		
1.5.3	Tower bolts5 "	Standard Quality	Each		

1.5.4	Tower bolts 6 "	Standard Quality	Each		
1.5.5	Tower bolts 10"	Standard Quality	Each		
1.5.6	Tower bolts 12"	Standard Quality	Each		
1.5.7	Hinges 3"	Standard Quality	Each		
1.5.8	Hinges 4"	Standard Quality	Each		
1.5.9	Hinges 5"	Standard Quality	Each		
1.5.10	Hinges 6"	Standard Quality	Each		
1.5.11	L clamp 2"	Standard Quality	Each		
1.5.12	L clamp 3"	Standard Quality	Each		
1.5.13	L clamp 4"	Standard Quality	Each		
1.5.14	Sliding boltsincluding nuts and bolts 3"	Standard Quality	Each		
1.5.15	Sliding boltsincluding nuts and bolts 4"	Standard Quality	Each		
1.5.16	Sliding bolts including nuts and bolts 5"	Standard Quality	Each		
1.5.17	Sliding bolts including nuts and bolts 6"	Standard Quality			
1.5.18	Hook & Eye 3"	Standard Quality	Each		
1.5.19	Hook & Eye 4"	Standard Quality	Each		
1.5.20	Hook & Eye 5"	Standard Quality	Each		
1.5.21	Hook & Eye 6"	Standard Quality	Each		
1.5.22	Handle 3"	Standard Quality	Each		
1.5.23	Handle 4"	Standard Quality	Each		
1.5.24	Handle 5"	Standard Quality	Each		
1.5.25	Handle 6"	Standard Quality	Each		
1.5.26	Brass handle - 4"	Standard Quality	Each		
1.5.27	Brass handle - 5"	Standard Quality	Each		
1.5.28	Brass handle - 6"	Standard Quality	Each		
1.6	Plastic glass 6 mm	Standard Quality	Sft		
1.6.1	Brass interlocking system with all accessories complete	Standard Quality	Set		
1.6.2	Stainless Steel interlocking system with all accessories complete	Standard Quality	Set		
1.6.3	Peep hole and door chain guard	Standard Quality	Each		
1.6.4	Plastic bead for ceiling 3/4"	Standard Quality	Rft.		
1.6.5	Plastic bead for ceiling 1"	Standard Quality	Rft.		
1.6.6	Plastic bead for ceiling 2"	Standard Quality	Rft.		
1.7	**ROOFING ITEMS**				
1.7.1	CGI sheet- 0.40 mm/26 G thick	Aarti /suraksha/TATA/ Jindal	Rft		
1.7.2	CGI sheet- 0.50 mm thick	Aarti /suraksha/TATA/ Jindal	Rft		
1.7.3	CGI sheet- 0.63 mm/24 G thick	Aarti /suraksha/TATA/ Jindal	Rft		
1.7.4	CGI sheet- 0.53 mm thick	Aarti /suraksha/TATA/ Jindal	Rft		
1.7.5	CGI sheet- 0.55 mm thick	Aarti /suraksha/TATA/ Jindal	Rft		
1.7.6	CGI sheet- 0.64 mm/22 G	Aarti /suraksha/TATA/	Rft		

	thick	Jindal			
1.7.7	CGI sheet- 0.81mm/20 G thick	Aarti /suraksha/TATA/ Jindal	Rft		
1.7.8	Pre painted roofing sheet-all colours	Perfect /TATA/ Jindal/Shakti/5star	Rft.		
1.7.9	Pre painted roofing Ridge	Perfect /TATA/ Jindal/Shakti/5star	Rft.		
1.7.10	Pre painted Gutter(150x150)mm box type	Perfect /TATA/ Jindal/Shakti/5star	Rft.		
1.7.11	Pre painted Gutter(175x175)mm box type	Perfect /TATA/ Jindal/Shakti/5star	Rft.		
1.7.12	Pre painted Gutter(200x200)mm box type	Perfect /TATA/ Jindal/Shakti/5star	Rft.		
1.7.13	Pre Painted Gutter Elbow (150x150)mm box type	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.14	Pre Painted Gutter Elbow (175x175)mm box type	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.15	Pre Painted Gutter Elbow (200x200)mm box type	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.16	Pre painted Gutter end cap- 150mm	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.17	Pre painted Gutter end cap- 175mm	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.18	Pre painted Gutter end cap- 200mm	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.19	Pre painted Gutter drainout dropdown - 150mm dia	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.20	Pre painted Gutter drainout dropdown - 175mm dia	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.21	Pre painted Gutter drainout dropdown - 200mm dia	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.22	Pre painted Gutter Elbow with drainout dropdown - 150mm dia	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.23	Pre painted Gutter Elbow with drainout dropdown - 175mm dia	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.24	Pre painted Gutter Elbow with drainout dropdown - 200mm dia	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.25	Pre painted Gutter Elbow (L shaped)with drainout dropdown - 150mm dia	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.26	Pre painted Gutter Elbow (L shaped)with drainout dropdown - 175mm dia	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.27	Pre painted Gutter Elbow (L shaped)with drainout dropdown - 200mm dia	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.28	Pre painted Tee-3" for gutter pipe	Standard Quality	Each		
1.7.29	Pre painted Tee-6" for gutter pipe	Standard Quality	Each		
1.7.30	Pre painted Gutter hook 150mm	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.31	Pre painted Gutter hook 175mm	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.32	Pre painted Gutter hook 200mm	Perfect /TATA/ Jindal/Shakti/5star	Each		
1.7.33	PGI Ridging (24G) 12"x6'	Perfect /TATA/ Jindal/Shakti/5star	Rft		

1.7.34	PGI Ridging (26G) 12"x6'	Perfect /TATA/ Jindal/Shakti/5star	Rft		
1.7.35	PGI Ridging (24G) 18"x6'	Perfect /TATA/ Jindal/Shakti/5star	Rft		
1.7.36	PGI Ridging (26G) 18"x6'	Standard Quality	Rft		
1.7.37	G.I. roofing screw 2.5"	Standard Quality	Kg.		
1.7.38	G.I. roofing screw 3"	Standard Quality	Kg.		
1.7.39	G.I. roofing screw 4"	Standard Quality	Kg.		
1.7.40	Self drilling G.I. roofing screw 4"	Standard Quality	Pcs		
1.7.41	Self drilling G.I. roofing screw 3"	Standard Quality	Pcs		
1.7.42	Self drilling G.I. roofing screw 2"	Standard Quality	Pcs		
1.7.43	Bitumen washer	Standard Quality	Pkt		
1.7.44	Limpet washer	Standard Quality	Kg.		
1.7.45	MS washer	Standard Quality	Pcs		
1.7.46	PGI gutter 22 g	Standard Quality	Each		
1.7.47	PGI gutter end 22 G	Standard Quality	Each		
1.7.48	PGI gutter fitting to rain water pipe 22 G	Standard Quality	Each		
1.7.49	PGI gutter corner fitting 22 G	Standard Quality	Each		
1.7.50	PVC gutter 22G, 110mm dia.	Standard Quality	Rft		
1.7.51	PVC gutter 22G, 150mm dia.	Standard Quality	Rft.		
1.7.52	PVC gutter 22G, 200mm dia,	Standard Quality	Each		
1.7.53	Gutter hooks (MS) 110mm dia	Standard Quality	Each		
1.7.54	Gutter hooks (MS) 150mm dia	Standard Quality	Each		
1.7.55	Gutter hooks (MS) 175mm dia	Standard Quality	Each		
1.7.56	Gutter hooks (MS) 200mm dia	Standard Quality	Each		
1.7.57	Rain Water Cone (MS)	Standard Quality	Rft		
1.7.58	Gutter hooks(PVC) 110mm dia	Standard Quality	Each		
1.7.59	Gutter hooks(PVC) 150mm dia	Standard Quality	Each		
1.7.60	Gutter hooks (PVC) 200mm dia	Standard Quality	Each		
1.7.61	PVC Gutter end cap- 150mm	Standard Quality	Each		
1.7.62	PVC Gutter end cap- 175mm	Standard Quality	Each		
1.7.63	PVC Gutter end cap- 200mm	Standard Quality	Each		
1.7.64	PVC Gutter drainout dropdown - 110mm dia	Standard Quality	Each		
1.7.65	PVC Gutter drainout dropdown - 150mm dia	Standard Quality	Each		
1.7.66	PVC Gutter drainout dropdown - 175mm dia	Standard Quality	Each		
1.7.67	PVC Gutter drainout dropdown - 200mm dia	Standard Quality	Each		
1.7.68	PVC Gutter Elbow with drainout dropdown - 110mm dia	Standard Quality	Each		
1.7.69	PVC Gutter Elbow with drainout dropdown - 150mm dia	Standard Quality	Each		
1.7.70	PVC Gutter Elbow with drainout dropdown - 200mm dia	Standard Quality	Each		
1.7.71	PVC Gutter Elbow (L shaped)with drainout	Standard Quality	Each		

	dropdown - 110mm dia				
1.7.72	PVC Gutter Elbow (L shaped)with drainout dropdown - 150mm dia	Standard Quality	Each		
1.7.73	PVC Gutter Elbow (L shaped)with drainout dropdown - 175mm dia	Standard Quality	Each		
1.7.74	PVC Gutter Elbow (L shaped)with drainout dropdown - 200mm dia	Standard Quality	Each		
1.7.75	PVC Gutter Socket 110mm	Standard Quality	Each		
1.7.76	PVC Gutter Socket 150mm	Standard Quality	Each		
1.7.77	PVC Gutter Socket 175mm	Standard Quality	Each		
1.7.78	PVC Gutter Socket 200mm	Standard Quality	Each		
1.7.79	PVC saddle 20 mm dia	Standard Quality	Each		
1.7.80	PVC saddle 25 mm dia	Standard Quality	Each		
1.7.81	PVC saddle 32 mm dia	Standard Quality	Each		
1.7.82	PVC saddle 50 mm dia	Standard Quality	Each		
1.7.83	PVC saddle 63 mm dia	Standard Quality	Each		
1.7.84	PVC saddle 75 mm dia	Standard Quality	Each		
1.7.85	PVC saddle 110 mm dia	Standard Quality	Each		
1.7.86	PVC saddle 150mm dia	Standard Quality	Each		
1.7.87	PVC gutter end 22 G	Standard Quality	Each		
1.7.88	PVC gutter fitting to rain water pipe 22 G	Standard Quality	Each		
1.7.89	PVC gutter corner fitting 22 G	Standard Quality	Each		
1.7.90	PVC bracket for rain water pipe	Standard Quality	Each		
1.7.91	PVC Tee-3" for gutter pipe	Standard Quality	Each		
1.7.92	PVC Tee-6" for gutter pipe	Standard Quality	Each		
1.7.93	Transparent sheet 1.2mm corrugated (White)	Standard Quality	Rft		
1.7.94	Transparent sheet 1.5mm corrugated (White)	Standard Quality	Rft		
1.7.95	Transparent sheet 1.2mm corrugated (All Color)	Standard Quality	Rft		
1.7.96	Transparent sheet 1.5mm corrugated (All Color)	Standard Quality	Rft		
1.8	**STEEL**				
1.8.1	M.S. Rod plain - 6, 8mm	Karma TMX/Lhaki TMT	Kg.		
1.8.2	M.S. Rod plain - 10,12mm	Karma TMX/Lhaki TMT	Kg.		
1.8.3	M.S. Rod plain - 16,20mm	Karma TMX/Lhaki TMT	Kg.		
1.8.4	Tor steel - 8,10,12mm	Karma TMX/Lhaki TMT	Kg.		
1.8.5	Tor steel - 16,20mm	Karma TMX/Lhaki TMT	Kg.		
1.8.6	Tor steel - 25mm	Karma TMX/Lhaki TMT	Kg.		
1.8.7	Steel bracket 3/4"	Standard Quality	Each		
1.8.8	Steel bracket 1"	Standard Quality	Each		
1.8.9	Black Binding wire	Standard Quality	Kg.		
1.8.10	GI Binding wire	Standard Quality	Kg.		
1.8.11	M.S. flat/Plate	Standard Quality	Kg.		

1.8.12	M.S. sheet	Standard Quality	Kg.		
1.8.13	M.S. angle iron post only	Standard Quality	Kg.		
1.8.14	M.S. angle iron post for fencing including cutting, bending, drilling holes as complete as per site requirement	Standard Quality	Kg.		
1.8.15	G.I. U staple/Nail	Standard Quality	Kg		
1.8.16	Plain steel sheet 4' wide 2mm thick	Standard Quality	Mtr.		
1.8.17	Plain steel sheet 4' wide 3mm thick	Standard Quality	Mtr.		
1.8.18	Plain steel sheet 4' wide 4mm thick	Standard Quality	Mtr.		
1.8.19	Plain steel sheet 3' wide	Standard Quality	Kg.		
1.8.20	M.S. hold fast for frame	Standard Quality	Kg.		
1.8.21	G.I. barbed wire	Standard Quality	Kg.		
1.8.22	MS Window ornamental (Bhutanese design)grill including welding, painting, cutting, joining, filing, etc. complete as required designed as per site requirements.	Standard Quality	Kg.		
1.8.23	MS Window plain grill including welding, painting, cutting, joining, filing, etc. complete as required designed as per site requirements.	Standard Quality	Kg.		
1.8.24	MS gate with angle, plain rod and flat including welding, painting, cutting, joining, filing, etc. complete as required designed as per site requirements.	Standard Quality	Kg.		
1.8.25	MS J hooks	Standard Quality	Kg.		
1.8.26	MS L hooks	Standard Quality	Kg.		
1.8.27	Holding down bolt with nuts & washer 8"	Standard Quality	Kg.		
1.8.28	Holding down bolt with nuts & washer 10"	Standard Quality	Kg.		
1.8.29	Holding down bolt with nuts & washer 12"	Bansal,Utkarsh	Kg.		
1.8.30	MS Tubular steel (square,rectangular,circular)	Bansal,Utkarsh	Kg.		
1.8.31	MS Square	Standard Quality	Kg		
1.8.32	Aluminium sheet 4' wide	Standard Quality	Mtr.		
1.8.33	Aluminium sheet 3' wide	Standard Quality	Mtr.		
1.8.34	Aluminium channel 30mm	Standard Quality	Mtr.		
1.8.35	Aluminium Channel 35 mm	Standard Quality	Mtr.		
1.8.36	Aluminium strip 40x1.6mm	Standard Quality	Kg		
1.8.37	Alumunium frame for door shutter	Standard Quality	Kg		
1.8.38	Aluminium frame for window	Standard Quality	Kg		
1.8.39	Partition framing (aluminium)	Standard Quality	Kg		
1.8.40	False ceiling framing (Aluminium)- 20'	Standard Quality	Each		

1.8.41	Steel roller small size for glass	Standard Quality	Each		
1.8.42	Aluminium rolling shutter with complete accessories as required.	Dura Ultima or Equivalent	Sft.		
1.8.43	M.S Collapsible Shutter with complete accessories as required	Standard Quality	Kg		
1.9	**RCC Hume Pipe**				
1.9.1	RCC Hume pipe 225mm outer dia.	Standard Quality *Bhutan Product	Mtr.		
1.9.2	RCC Hume pipe -300mm outer dia.	Standard Quality *Bhutan Product	Mtr.		
1.9.3	RCC Hume pipe -450mm outer dia.	Standard Quality *Bhutan Product	Mtr.		
1.9.4	RCC Hume pipe - 600mm outer dia.	Standard Quality *Bhutan Product	Mtr.		
1.9.5	RCC Hume pipe - 900mm outer dia.	Standard Quality *Bhutan Product	Mtr.		
1.9.6	RCC Hume pipe - 1200mm outer dia.	Standard Quality *Bhutan Product	Each		
1.9.7	RCC Collar- 225mm inner dia.	Standard Quality *Bhutan Product	Each		
1.9.8	RCC Collar- 300mm inner dia.	Standard Quality *Bhutan Product	Each		
1.9.9	RCC Collar- 450mm inner dia.	Standard Quality *Bhutan Product	Each		
1.9.10	RCC Collar- 600mm inner dia.	Standard Quality *Bhutan Product	Each		
1.9.11	RCC Collar- 900mm inner dia.	Standard Quality *Bhutan Product	Each		
1.9.12	RCC Collar- 1200mm inner dia.	Standard Quality *Bhutan Product	Each		
1.9.13	Bitumen emulsion for black topping	Standard Quality *Bhutan Product	Drum		
1.9.14	Bitumen for black topping using 80/100 grade	Standard Quality *Bhutan Product	Drum		
1.10	**MISCELLENQUS**				
1.10.1	Gunny bags (100 kg. capacity)	Standard Quality	No.		
1.10.2	White Zinc powder	Standard Quality	Pkt.		
1.10.3	Plaster of Paris	Standard Quality	Kg.		
1.10.4	20mm thick colur marble size 2'-0"x2'-0"	Standard Quality	Sft.		
1.10.5	20mm thick colour marble size 3'-6"x2'-0"	Standard Quality	Sft.		
1.10.6	Marble Dust 50 kg. per bag	Standard Quality	Bag		
1.10.7	Marble chips - colour	Standard Quality	KG		
1.10.8	Coconut rope	Standard Quality	Kg		
1.10.9	Manola Rope	Standard Quality	Kg.		
1.10.10	Nylone Rope (1" dia)	Standard Quality	Kg.		
1.10.11	Nylone Rope (1/2" dia)	Standard Quality	Kg.		
1.10.12	PVC Rope	Standard Quality	Kg.		
1.10.13	Wire brush	Standard Quality	Each		
1.10.14	Broom brush	Standard Quality	Each		
1.10.15	White cement	Standard Quality	Kg.		

1.10.16	Mason thread	Standard Quality	Roll		
1.10.17	Mobil 5 ltrs jar	Standard Quality	Each		
1.10.18	Grease	Standard Quality	Kg.		
1.10.19	Solvent Cement	Standard Quality	Kg		
1.10.20	Cement quick Setting Compound	Standard Quality	Kg		
1.10.21	Chalk	Standard Quality	Pkt.		
1.10.22	Black plastic for shutering	Standard Quality	Kg		
1.10.23	Thermo plastic paint with glass beads for Parking demarcation paint powder good quality (white)	Standard Quality	Kgs		
1.10.24	Thermo plastic paint with glass beads for Parking demarcation paint powder good quality (yellow)	Standard Quality	Kgs		
1.10.25	Rolling shutter with all necessary components required to complete the job (measurement will be based on the site requirement)	Standard Quality	Sqm		
1.10.26	Seal tape for particle board edge sealing	Standard Quality	No		
1.10.27	Admixture(accelerator)	Sika/ Dr.fixit	Ltr.		
1.10.28	Rockwool 50mm thick density 50 Kg per cum with aluminium reflector on one side.	Standard Quality	Sft.		
1.10.29	Glasswool 50mm thick	Standard Quality	Sft.		
1.10.30	Thermal black foam 8mm thick	Standard Quality	Sft.		
1.10.31	Thermal black foam 12mm thick	Standard Quality	Sft.		
1.10.32	Thermal black foam 20mm thick	Standard Quality	Sft.		
1.10.33	Glasswool 50mm thick	Standard Quality	Rft.		
1.10.34	PVC Profile 3'	Standard Quality	Sft.		
1.10.35	PVC Profile 4'	Standard Quality	Sft.		
1.10.36	Bitumen felt type 3- grade2	Standard Quality	Sq.Mtr		
1.10.36	Waterproofing / Plasticizer admixture for concrete/mortar	Sika (PLastocrete Plus) / Dr. Fixit (Pidiproof LW+)	Ltr.		
1.10.37	Bitumen based liquid applied waterproofing membrane (DPC membrane)	Sika (Sikalatic) / Dr.Fixit (Bitufix)	Ltr.		
1.10.38	Atactic Poly Propylene (APP) modified bituminous membranes for waterproofing	Sika (SikaShield) / Dr.Fixit (TorchShield)	Sft.		
1.10.39	Bituminous Primer	Sika (SikaShield Primer) / Dr.Fixit (TorchShield Primer)	Ltr.		
1.10.40	PVC water stopper (Central Bulb with corrugated sides / Dumb Bell Type / Kicker Type)	Standard Quality	Mtrs.		

Annexure-II
LIST OF MATERIALS FOR ELECTRICAL ITEMS FOR THE YEAR 2023

The brand quoted for Equivalent should be mentioned in Remarks. If not mentioned, the brand will be assumed as the one specified by the purchaser.

SL#	DESCRIPTION / SPECIFICATION OF ITEM	BRAND	UNIT	RATE	REMARKS
E1	**LAMPS**				
E1.1	**Pin Type Lamps**				
E1.1.a	**Incandescent Bulb/GLS lamp, Pin Type, 230V, 50Hz A.C**				
E1.1.a.1	Clear colour 60 Watt	HPL/Crompton/ Havells	Each		
E.1.1.a.2	Clear colour 100 Watt	"	Each		
E1.1.b	**Fluorescent Tube Light Lamp/Rod, Pin Type, 230V, 50Hz A.C**				
E1.1.b.1	1 1/2" (38mm) dia. 40 Watt	HPL/Crompton/ Havells	Each		
E1.1.c	**LED LAMPS, 230V, 50Hz, A.C Pin Type**				
E1.1.c.1	5w(dia 100mm- 200mm)	HPL/Crompton/ Havells	Each		
E1.1.c.2	7w(dia 100mm- 200mm)	"	Each		
E1.1.c.3	9w(dia 100mm- 200mm)	"	Each		
E1.1.c.4	12w(dia 100mm- 200mm)	"	Each		
E1.1.c.5	15w(dia 100mm- 200mm)	"	Each		
E1.1.c.6	18w(dia 100mm- 200mm)	"	Each		
E1.1.c.7	20w(dia 100mm- 200mm)	"	Each		
E1.1.c.8	22w(dia 100mm- 200mm)	"	Each		
E1.1.c.9	24w(dia 100mm- 200mm)	"	Each		
E2	**LUMINARIES/FIXTURES**				
E2.1	**INDOOR LIGHTING LUMINARIES/FIXTURES &**				
E2.1.a	**Wall Brackets (Surface fittings) upward projection sutitable for fixing upto 14 W LED lamp on surface/wall, 230V AC**				
E2.1.a.1	Wall Bracket (upto 14 w)	HPL/Crompton/ Havells	Set		
E2.1.a.2	Decorative wall light fixture 15w	"	Set		
E2.1.a.3	Up-down light 10w	"	Set		
E2.1.b	**Bulkhead Fitting with complete set 230V, AC, suitable for fixing on surface/wall/ceiling.**				

E2.1.b.1	Single 1x9 Watt	Havells/HPL/Crompton	Set		
E2.1.b.2	Single 1x15 Watt	"	Set		
E2.1.b.3	Single 1x18 Watt	"	Set		
E2.1.b.4	Double 2x9 Watt	"	Set		
E2.1.c	**Calling Bell assembly with complete set, 230V, AC, suitable for fixing on surface/wall/ceiling.**				
E2.1.c.1	Buzzer bell assembly 40 Watt	"	Set		
E2.1.c.2	Musical bell assembly 40 Watt	"	Set		
E3	**OUTDOOR LIGHTInG LUnInRIES/ FIXTURES & ACCESSORIES**				
E3.1.a	**Post Top Lantern, Conical Cover suitable for pole with Outer Dia max of 70 mm max with 3 number hexa screw for mounting and die-cast Alumunium alloy housing complete with all accessories.**				
E3.1.a.1	LED 25W with conical cover & IP65 protection	HPL/Crompton/ Havells	Set		
E3.1.a.2	LED 35W with conical cover & IP65 protection	"	Set		
E3.1.a.3	LED 40W with conical cover & IP65 protection	"	Set		
E3.1.a.4	LED 60W with conical cover & IP65 protection	"	Set		
E3.1.b	**Post Top Lantern, Spherical Cover suitable for pole with Outer Dia max of 70 mm max with 3 number hexa screw for mounting and die-cast Alumunium alloy housing complete with all accessories.**				
E3.1.b.1	LED 25W with Spherical cover & IP65 protection	HPL/Crompton/ Havells	Set		
E3.1.b.2	LED 35W with Spherical cover & IP65 protection	"	Set		
E3.1.b.3	LED 40W with Spherical cover & IP65 protection	"			
E3.1.b.4	LED 60W with Spherical cover & IP65 protection	"			
E3.1.c	**Area Lighting/Flood Lights of ling life COB LED with epoxy powder coated pressure die-cast Allumunium housing with cable gland PG9 to maintain ingress protection including separate CG box finished with MS Cradle for mounting.**				
E3.1.c.1	LED flood light 70 w with IP65 protection	Havells/HPL/ Crompton	Set		
E3.1.c.2	LED flood light 80 w with IP65 protection	"	Set		
E3.1.c.3	LED flood light 90 w with IP65 protection	"	Set		
E3.1.c.4	LED flood light 100 w with IP65 protection	"	Set		
E3.1.c.5	LED flood light 120 w with IP65 protection	"	Set		
E3.1.c.6	LED flood light 135 w with IP65 protection	"	Set		

E3.1.c.7	LED flood light 200 w with IP65 protection	"	Set		
E3.1.c.8	LED flood light 240 w with IP65 protection	"	Set		
E3.1.c.9	LED flood light 300 w with IP65 protection	"	Set		
E4.1.a	**LED LIGHT AnD FITTInGS WITH LAMPS**				
E4.1.a.1	Panel light 12w	HPL/Crompton/ Havells	Set		
E4.1.a.2	Panel light 15w	"	Set		
E4.1.a.3	Panel light 18w	"	Set		
E4.1.a.4	Panel light 36w	"	Set		
E4.1.a.5	Surface Panel Fitting 12, 2x2 ft	"	Set		
E4.1.a.6	Surface Panel Fitting 18, 2x2 ft	"	Set		
E4.1.a.7	Surface Panel Fitting 36w, 2x2 ft	"	Set		
E4.1.a.8	Surface LED tube sets 1x12w	"	Set		
E4.1.a.9	Surface LED tube sets 1x18w	"	Set		
E4.1.a.10	Surface LED tube sets 1x20w		Set		
E4.1.a.11	Surface LED tube sets 1x36w	"	Set		
E4.1.a.12	Surface LED tube sets 1x40w	"	Set		
E4.1.a.13	Recessed LED tube sets 1x12w	"	Set		
E4.1.a.14	Recessed LED tube sets 1x18w	"	Set		
E4.1.a.15	Recessed LED tube sets 1x20w		Set		
E4.1.a.16	Recessed LED tube sets 1x36w	"	Set		
E4.1.a.17	Recessed LED tube sets 1x40w	"	Set		
E4.1.a.18	Surface mounted round led downlighter 1x12w	"	Set		
E4.1.a.19	Surface mounted round led downlighter 1x15w	"	Set		
E4.1.a.20	Surface mounted round led downlighter 1x18w	"	Set		
E4.1.a.21	Surface mounted round led downlighter 1x20w		Set		
E4.1.a.22	Surface mounted square led downlighter 1x12w	"	Set		
E4.1.a.23	Surface mounted square led downlighter 1x15w	"	Set		
E4.1.a.24	Surface mounted square led downlighter 1x18w	"	Set		
E4.1.a.25	Surface mounted square led downlighter 1x20w	"	Set		
E4.1.a.26	Recessed round led downlighter 1x12w	"	Set		
E4.1.a.27	Recessed round led downlighter 1x15w	"	Set		
E4.1.a.28	Recessed round led downlighter 1x18w	"	Set		
E4.1.a.29	Recessed round led downlighter 1x20w		Set		
E4.1.a.30	Recessed square led downlighter 1x12w	"	Set		
E4.1.a.31	Recessed square led downlighter 1x15w	"	Set		
E4.1.a.32	Recessed square led downlighter 1x18w	"	Set		
E4.1.a.33	Recessed square led downlighter 1x20w	"	Set		

E4.1.a.34	Recessed square led downlighter 1x50w	"	Set		
E4.1.a.35	LED Mirror light,1x9W	"	Set		
E4.1.a.36	LED Mirror light,1x12W	"	Set		
E4.1.a.37	LED Mirror light,1x18W	"	Set		
E4.1.a.38	LED COB surface mount downlighter, 10W	"	Set		
E4.1.a.39	LED COB surface mount downlighter, 15W	"	Set		
E4.1.a.40	LED COB surface mount downlighter, 20W	"	Set		
E4.1.a.41	LED COB surface mount downlighter, 25W	"	Set		
E4.1.a.42	LED COB surface mount downlighter, 50W	"	Set		
E4.1.a.43	Iliosbay Plus highbay IP65 LED Luminaire-50W (ILIOSBAYPLUSHBP50WLED857SP90DTOPC) suitable for ceiling(surface/suspended) mount with all required to suspend the light.	Havells and Equivalent	set		
E5.1.a	**Street Light Luminires with pressure die-cast Aluminium alloy Housing & toughened glass cover finished with with epoxy powder coated grey after phosphocromate treatement suitable for mounting bracket arm OD of 35mm-42mm.**				
E5.1.a.1	15W LED with IP65 protection.	HPL/Crompton/ Havells			
E5.1.a.2	20W LED with IP65 protection.	"	Set		
E5.1.a.3	25W LED with IP65 protection.	"	Set		
E5.1.a.4	30W LED with IP65 protection.	"	Set		
E5.1.a.5	45W LED with IP65 protection.	"	Set		
E5.1.a.6	50W LED with IP65 protection.	"	Set		
E5.1.a.7	60W LED with IP65 protection.	"	Set		
E5.1.a.8	90W LED with IP65 protection.	"	Set		
E5.1.a.9	120W LED with IP65 protection.	"	Set		
E5.1.a.10	200W LED with IP65 protection.	"	Set		
E5.2.a	**Junction Box Suitable for out door duty along with earthing terminals with nut and bolt, along with provision for MCB mount with locking arrangments & with suitable clamp finished with weatherproof synthetic paint for cable up to 35 sq.mm**				
E5.2.a.1	MS junction box out door duty, fabricated MS sheet, removal cover plate with gasket for dust and vermine proof with suitable clamp and nut & bolt-completed with all accessories as required	Sintex/ Hensel	Set		

	with IP 65/66 protection				
E5.2.a.2	Poly Carbonate pole Junction Box suitable with IP 65/66 protection	Sintex/ Hensel	Set		
E6	**SWITCHES, SOCKETS & WIRInG ACCESSORIES**				
E6.1	**Switches**				
E6.1.a	**Switch Socket Combined, Shuttered, Flush Type, 230V, 50Hz AC**				
E6.1.a.1	6A/10, 2 pin	Anchore-Roma/ legrand/ Havells	Each		
E6.1.a.2	6A/10, 3/5 pin	"	Each		
E6.1.a.3	16/20A, 3/5 pin	"	Each		
E6.1.a.4	10A/20A, Multi pin	"	Each		
E6.1.a.5	16/20A, Multi pin shuttered with indicator and fuse.	"	Each		
E6.1.a.6	6/10A/16/20A, Multi pin shuttered with indicator and fuse.	"	Each		
E6.1.a.7	Universal socket outlet 16/20A, 5-pin	"	Each		
E6.1.a.8	Universal socket outlet 16/20A, 5-pin with indicator and fuse.	"	Each		
E6.1.a.9	Flush Type Switch 6A	"	Each		
E6.1.a.10	CPL Socket 6 A (4X4)"	"	Each		
E6.1.a.11	CPL Socket 16 A (4X4)"	"	Each		
E6.1.b	**Switch Sockets Combined, Box Type, 230V, 50Hz AC**				
E6.1.b.1	16/20A, 3/5 pin with safety shutter	Anchore-Roma/ legrand/ Havells	Each		
E6.1.b.2	6A/16A or 10A/20A, multipin with safety shutter	"	Each		
E6.1.b.3	16/20A, 3 pin with safety shutter, indicator and fuse.	"	Each		
E6.1.b.4	6A/16A or 10A/20A, multipin with safety shutter, indicator and fuse.	"	Each		
E6.1.b.5	Ceiling rose (PVC) 2-plate 6A, 230V 50Hz	Essenza Goldmedal, Anchor	Each		
E6.1.c	**Comminication Sockets, Flush Type**				
E6.1.c.1	RJ-11 telephone socket flush type.	Anchore-Roma/ legrand/ Havells	Each		
E6.1.c.2	RJ-45 computer socket flush type.	"	Each		
E6.1.c.3	TV coaxial socket flush type.	"	Each		
E7	**MODULAR SWITCHES & SOCKETS**				
E7.1.a	**Modular Switches with frame,boxes and other accesspries etc.**				
E7.1.a.1	1 module-6/10A	Anchore-Roma/ legrand/ Havells	Set		
E7.1.a.2	2 module-6/10A	"	Set		

E7.1.a.3	3 module-6/10A	"	Set		
E7.1.a.4	4 module-6/10A	"	Set		
E7.1.a.5	6 module-6/10A	"	Set		
E7.1.a.6	8 module-6/10A	"	Set		
E7.1.a.7	3 module-16/20A Sockets,multi pin,child lock	"	Set		
E7.1.a.8	2 moudle x 4, 6/10A (Vertical)	"	Set		
E7.1.a.9	2 moudle x 6, 6/10A (Vertical)	"	Set		
E7.1.a.10	4 moudle x 2, 6/10A (Vertical)	"	Set		
E7.1.b	**ModularSwitches**				
E7.1.b.1	SP one way- 6/10A.	Anchore-Roma/ legrand/ Havells	Each		
E7.1.b.2	SP two way- 6/10A.	"	Each		
E7.1.b.3	SP one way- 16/20A.	"	Each		
E7.1.b.4	Bell push switch, SP one way- 6/10A.	"	Each		
E7.1.c	**Modular Sockets Outlets of 230V, 50Hz AC**				
E7.1.c.1	6/10A, 3 /5 pin Modular type .	Anchore-Roma/ legrand/ Havells	Each		
E7.1.c.2	16/20A, 3/5 pin Modular type .	"	Each		
E7.1.c.3	6A/16A, Multi pin Modular type.	"	Each		
E7.1.c.4	16/20A & 6/10A universal socket	"	Each		
E7.1.d	**Pop up Socket Outlets of 230V, 50Hz AC**				
E7.1.d.1	Water Proof Pop up Power socket 230V 50 Hz - 1 module	Havells /legrand	Each		
E7.1.d.2	Water Proof Pop up Power socket 230V 50 Hz - 2 module	Havells /legrand	Each		
E7.1.e	**Modular switch plate**				
E7.1.e.1	1 module	Anchore-Roma/ legrand/ Havells	Each		
E7.1.e.2	2 module	"	Each		
E7.1.e.3	3 module	"	Each		
E7.1.e.4	4 module	"	Each		
E7.1.e.5	6 module	"	Each		
E7.1.e.6	8 module	"	Each		
E7.1.e.7	2 moudle x 4, 6/10A (Vertical)	"			
E7.1.e.8	2 moudle x 6, 6/10A (Vertical)	"			
E7.1.e.9	4 moudle x 2, 6/10A (Vertical)	"			
E7.1.f	**Comminication Sockets, Modular Type**				
E7.1.f.1	RJ-11 telephone socket	Anchore-Roma/ legrand/ Havells	Each		
E7.1.f.2	RJ-45 ethernet socket	"	Each		
E7.1.f.3	TV coaxial socket	"	Each		
E8	**LAMP HOLDERS**				
E8.1.a	**Pin Type Lamp Holder 230V 50Hz AC**				
E8.1.a.1	Pendent holder 6A (heavy duty)	Goldmedal, HPL, Anchore- (Penta/Roma)	Each		

E8.1.a.2	Batten holder 6A (heavy duty)	Goldmedal, HPL, Anchore-(Penta/Roma)	Each		
E8.1.a.3	Angle holder 6A (heavy duty)	Goldmedal, HPL, Anchore-(Penta/Roma)	Each		
E9	**DOMESTIC WIRES/CABLES**				
E9.1.a	**Wires/cables - PVC insulated, multistrand, single core copper conductor 1.1 KVG for 50Hz AC, any colour insulation**				
E9.1.a.1	1sq.mm (Green)	Royal Cables, RR Cables, , Havells, KEI	Metre		
E9.1.a.2	1.5 sq.mm	"	Metre		
E9.1.a.3	2.5 sq.mm	"	Metre		
E9.1.a.4	4 sq.mm	"	Metre		
E9.1.a.5	6 sq.mm	"	Metre		
E9.1.a.6	10 sq.mm	"	Metre		
E9.1.a.7	16 sq.mm	"	Metre		
E9.1.b	**Aerial Cables - PVC insulated, twin core Al. conductor aerial cable 1.1KVG for 50Hz AC, any colour insulation**				
E9.1.b.1	4mm2	Royal Cables, RR Cables, , Havells, KEI	Meter		
E9.1.b.2	6mm2	"	Meter		
E9.1.b.3	10mm2	"	Meter		
E9.1.b.4	16mm2	"	Meter		
E9.1.c	**Co-axial Cables - Electrolytic grade solid annealed Cu. Conductor, Gas injected physical foam jelly flooded cables.**				
E9.1.c.1	RG-6 (Foam) - Signl losses db/100 yds at 100 MHz is 5	Richa/ Havells / Polycab	Meter		
E9.1.c.2	RG-11(Foam)-Signl losses db/100 yds at 100 MHz is 3.5	"	Meter		
E9.1.d	**Telephone Switchboard cables - PVC insulated telephone cables for indoor applicayions confirming to TEC specification G/WIR06/02**				
E9.1.d.1	1 pair	Richa/ Havells / KEI/ polycab	Meter		
E9.1.d.2	2 pairs	"	Meter		
E9.1.d.3	3 pairs	"	Meter		
E9.1.d.4	4 pairs	"	Meter		
E9.1.d.5	5 pairs	"	Meter		
E9.1.d.6	10 pairs	"	Meter		
E9.1.d.7	20 pairs	"	Meter		
E9.1.d.8	50 pairs	"	Meter		
E9.1.d.9	100 pairs	"	Meter		
E9.1.e	**Internet cables**				
E9.1.e.1	Cat 5	D-link	Rolls		

E9.1.e.2	Cat 6	"			
E9.1.e.3	Cat 6a	"	Rolls		
E10	**LT UG POWER CABLES**				
	-	-			
E10.1.a	**Unrmoured Al. LT UG Power Cable - PVC insulated & sheathed & Unrmoured multistrand Al. conductor LT UG power cable 1.1 KVG 50Hz for AC**				
E10.1.a.1	2 core x 4mm2	Havells, KEI, RR Cable	Meter		
E10.1.a.2	2 core x 6mm2	"	Meter		
E10.1.a.3	2 core x 10mm2	"	Meter		
E10.1.a.4	2 core x 16mm2	"	Meter		
E10.1.a.5	2 core x 25mm2	"	Meter		
E10.1.a.6	4 core x 10mm2	"	Meter		
E10.1.a.7	4 core x 16mm2	"	Meter		
E10.1.a.8	4core x 25mm2	"	Meter		
E10.1.b	**Armoured Al. LT UG Power Cable - PVC insulated & Sheathed & Armoured multistrand Al. conductor LT UG power cable 1.1 KVG 50Hz for AC**				
E10.1.b.1	2 core x 4mm2	Havells, KEI, RR Cable	Meter		
E10.1.b.2	2 core x 6mm2	"	Meter		
E10.1.b.3	2 core x 10mm2	"	Meter		
E10.1.b.4	2 core x 16mm2	"	Meter		
E10.1.b.5	2 core x 25mm2	"	Meter		
E10.1.b.6	3 core x 4mm2	"	Meter		
E10.1.b.7	3 core x 6mm2	"	Meter		
E10.1.b.8	3 core x 10mm2	"	Meter		
E10.1.b.9	3 core x 16mm2	"	Meter		
E10.1.b.10	3 core x 25mm2	"	Meter		
E10.1.b.11	3 core x 35mm2	"	Meter		
E10.1.b.12	4 core x 4mm2	"	Meter		
E10.1.b.13	4 core x 6mm2	"	Meter		
E10.1.b.14	4 core x 10mm2	"	Meter		
E10.1.b.15	4 core x 16mm2	"	Meter		
E10.1.b.16	4core x 25mm2	"	Meter		
E10.1.b.17	4core x 35mm2	"	Meter		
E10.1.b.18	4core x 50mm2	"	Meter		
E10.1.b.19	4core x 70mm2	"	Meter		
E10.1.b.20	4core x 95mm2	"	Meter		
E10.1.b.21	4core x 120mm2	"	Meter		
E10.1.b.22	4core x 150mm2	"	Meter		

E10.1.b.23	4core x 240mm2	"	Meter		
E10.1.b.24	4core x 300mm2	"	Meter		
E10.1.b.25	4core x 400mm2	"	Meter		
E10.1.b.26	4core x 500mm2	"	Meter		
E10.1.b.27	4core x 630mm2	"	Meter		
E10.1.c	**Armoured Copper LT UG Power Cable - PVC insulated & Sheathed & Armoured multistrand conductor LT UG power cable 1.1 KVG 50Hz for AC**				
E10.1.c.1	2core x 2.5mm2	Havells, KEI, RR Cable	Meter		
E10.1.c.2	2core x 4mm2	"	Meter		
E10.1.c.3	2core x 6mm2	"	Meter		
E10.1.c.4	2core x 10mm2	"	Meter		
E10.1.c.5	2core x 16mm2	"	Meter		
E10.1.c.6	3core x 2.5mm2	"	Meter		
E10.1.c.7	3core x 4mm2	"	Meter		
E10.1.c.8	3core x 6mm2	"	Meter		
E10.1.c.9	3core x 10mm2	"	Meter		
E10.1.c.10	3core x 16mm2	"	Meter		
E10.1.c.11	4 core x 4mm2	"	Meter		
E10.1.c.12	4 core x 6mm2	"	Meter		
E10.1.c.13	4 core x 10mm2	"	Meter		
E10.1.c.14	4 core x 16mm2	"	Meter		
E10.1.c.15	4core x 25mm2	"	Meter		
E10.1.c.16	4core x 35mm2	"	Meter		
E10.1.c.17	4core x 50mm2	"	Meter		
E10.1.c.18	4core x 70mm2	"	Meter		
E10.1.c.19	4core x 95mm2	"	Meter		
E10.1.c.20	4core x 120mm2	"	Meter		
E10.1.c.21	4core x 150mm2	"	Meter		
E10.1.c.22	4core x 240mm2	"	Meter		
E10.1.c.23	4core x 300mm2	"	Meter		
E10.1.c.24	4core x 400mm2	"	Meter		
E10.1.c.25	4core x 500mm2	"	Meter		
E10.1.c.26	4core x 630mm2	"	Meter		
E10.1.d	**Cable Socket- Thimble, Alluminium, 50Hz A.C.**				
E10.1.d.1	6mm2	Standard Quality	Each		
E10.1.d.2	10mm2	"	Each		
E10.1.d.3	16mm2	"	Each		
E10.1.d.4	25mm2	"	Each		
E10.1.d.5	35mm2	"	Each		
E10.1.d.6	50mm2	"	Each		
E10.1.d.7	70mm2	"	Each		
E10.1.d.8	95mm2	"	Each		
E10.1.d.9	120mm2	"	Each		
E10.1.d.10	150mm2	"	Each		

E10.1.d.11	240mm2	"	Each		
E10.1.d.12	300mm2	"	Each		
E10.1.d.13	400mm2	"	Each		
E10.1.d.14	500mm2	"	Each		
E10.1.d.15	630mm2	"	Each		
E10.1.e	**Cable Socket- Ferrule, Alluminium, 50Hz A.C.**				
E10.1.e.1	6mm2	Standard Quality	Each		
E10.1.e.2	10mm2	"	Each		
E10.1.e.3	16mm2	"	Each		
E10.1.e.4	25mm2	"	Each		
E10.1.e.5	35mm2	"	Each		
E10.1.e.6	50mm2	"	Each		
E10.1.e.7	70mm2	"	Each		
E10.1.e.8	95mm2	"	Each		
E10.1.e.9	120mm2	"	Each		
E10.1.e.10	150mm2	"	Each		
E10.1.e.11	240mm2	"	Each		
E10.1.e.12	300mm2	"	Each		
E10.1.e.13	400mm2	"	Each		
E10.1.e.14	500mm2	"	Each		
E10.1.e.15	630mm2	"	Each		
E10.1.f	**Cable Socket- Bottle type Thimble, Alluminium, 50Hz A.C.**				
E10.1.f.1	6mm2	Standard Quality	Each		
E10.1.f.2	10mm2	"	Each		
E10.1.f.3	16mm2	"	Each		
E10.1.f.4	25mm2	"	Each		
E10.1.f.5	35mm2	"	Each		
E10.1.f.6	50mm2	"	Each		
E10.1.f.7	70mm2	"	Each		
E10.1.f.8	95mm2	"	Each		
E10.1.f.9	120mm2	"	Each		
E10.1.f.10	150mm2	"	Each		
E10.1.f.11	240mm2	"	Each		
E10.1.f.12	300mm2	"	Each		
E10.1.f.13	400mm2	"	Each		
E10.1.f.14	500mm2	"	Each		
E10.1.f.15	630mm2	"	Each		
E10.1.g	**MS Cable Gland, A.C as per IS 13947 (Part I)**				
E10.1.g.1	10mm2	Standard Quality	Each		
E10.1.g.2	16mm2	"	Each		
E10.1.g.3	25mm2	"	Each		
E10.1.g.4	35mm2	"	Each		
E10.1.g.5	50mm2	"	Each		
E10.1.g.6	70mm2	"	Each		
E10.1.g.7	95mm2	"	Each		
E10.1.g.8	120mm2	"	Each		

E10.1.g.9	150mm2	"	Each		
E10.1.g.10	240mm2	"	Each		
E10.1.g.11	300mm2	"	Each		
E10.1.g.12	400mm2	"	Each		
E10.1.g.13	500mm2	"	Each		
E10.1.g.14	630mm2	"	Each		
E10.1.g.15	800mm2	"	Each		
E10.1.g.16	1000mm2	"	Each		
E11	**LT PVC & XLPE 1.1 KV Grade UG Cable Jointing Kits (Straight Through Joint or End Termintion) including Plastic Mould, Cable jointing compound - resin, Mould adhesive-sum-solvent, Sponge sheet, Earth Continuity connection, Spacers, PVC adhesive tape, Mould holding Clips and Instruction sheet etc. as required.**				
E11.1.a	**For 2-core UG cable sizes- - straight through joints**	Raychem RPGs or M-seal/3M	Set		
E11.1.a.1	1.5 Sq.mm to 10 Sq.mm	"	Set		
E11.1.a.2	16 Sq.mm to 35 Sq.mm	"	Set		
E11.1.a.3	50 Sq.mm to 70 Sq.mm	"	Set		
E11.1.a.4	95 Sq.mm	"	Set		
E11.1.a.5	120 Sq.mm to 150 Sq.mm	"	Set		
E11.1.b	**For 3, 3.5 and 4-core UG cable sizes - straight through joints**				
E11.1.b.1	1.5 Sq.mm to 6 Sq.mm	Raychem RPGs or M-seal/3M	Set		
E11.1.b.2	10 Sq.mm to 16 Sq.mm	"	Set		
E11.1.b.3	25 Sq.mm to 50 Sq.mm	"	Set		
E11.1.b.4	70 Sq.mm to 150 Sq.mm	"	Set		
E11.1.b.5	185 Sq.mm to 300 Sq.mm	"	Set		
E11.1.b.6	400 Sq.mm	"	Set		
E11.1.b.7	500 Sq.mm	"	Set		
E11.1.b.8	630 Sq.mm	"	Set		
E11.1.b.9	800 Sq.mm	"	Set		
E11.1.b.10	1000 Sq.mm	"	Set		
E11.1.c	**For 1, 3, 3.5 and 4-core UG cable sizes - indoor/outdoor End termintion**				
E11.1.c.1	4 Sq.mm to 16 Sq.mm	Raychem RPGs or M-seal/3M	Set		
E11.1.c.2	25 Sq.mm to 50 Sq.mm	"	Set		
E11.1.c.3	70 Sq.mm to 150 Sq.mm	"	Set		
E11.1.c.4	185 Sq.mm to 300 Sq.mm	"	Set		
E11.1.c.5	400 Sq.mm	"	Set		
E11.1.c.6	500 Sq.mm to 630 Sq.mm	"	Set		
E11.1.c.7	800 Sq.mm	"	Set		
E11.1.c.8	1000 Sq.mm	"	Set		

E12	**Insulation Piercing Connector or IPC connector (used in ariel cable), LV, Alluminium material.**				
E12.1.a.1	16mm2	Standard Quality	Each		
E12.1.a.2	25mm2	"	Each		
E12.1.a.3	35mm2	"	Each		
E12.1.a.4	50mm2	"	Each		
E12.1.a.5	70mm2	"	Each		
E12.1.a.6	95mm2	"	Each		
E13	**LV - COnTROL GEARS**				
	-	-			
E13.1.a	**MCB- C series , 50Hz AC with complete accessories**				
E13.1.a.1	Single pole, MCB - 6A.	Legrand/Schneider/IndoAsian	Each		
E13.1.a.2	Single pole, MCB - 10A.	"	Each		
E13.1.a.3	Single pole, MCB - 16A.	"	Each		
E13.1.a.4	Single pole, MCB - 40A.	"	Each		
E13.1.a.5	Single pole, MCB - 32A.	"	Each		
E13.1.a.6	Single pole, MCB - 63A.	"	Each		
E13.1.a.7	Double pole - 10A.	"	Each		
E13.1.a.8	Double pole - 16A.	"	Each		
E13.1.a.9	Double pole - 20A.	"	Each		
E13.1.a.10	Double pole - 25A.	"	Each		
E13.1.a.11	Double pole - 32A.	"	Each		
E13.1.a.12	Double pole - 40A.	"	Each		
E13.1.a.13	Double pole - 50A.	"	Each		
E13.1.a.14	Double pole - 63A.	"	Each		
E13.1.a.15	Four pole - 10A.	"	Each		
E13.1.a.16	Four pole - 16A.	"	Each		
E13.1.a.17	Four pole - 20A.	"	Each		
E13.1.a.18	Four pole - 25A.	"	Each		
E13.1.a.19	Four pole - 32A.	"	Each		
E13.1.a.20	Four pole - 40A.	"	Each		
E13.1.a.21	Four pole - 50A.	"	Each		
E13.1.a.22	Four pole - 63A.	"	Each		
E13.1.a.23	Four pole - 80A.	"	Each		
E13.1.a.24	Four pole - 100A.	"	Each		
E13.2.	**MCCBs**				
E13.2.a.	**MCCB Four Pole Breaking Capacity 16/25 kA, 415V, 50Hz AC with complete accessories**				
E13.2.a.1	63 A	Legrand/Schneider/IndoAsian	Each		
E13.2.a.2	100 A	"	Each		
E13.2.a.3	125 A	"	Each		

E13.2.b	**MCCB Four Pole Breaking Capacity 36 kA, 415V, 50Hz AC with complete accessories**				
E13.2.b.1	63 A	Legrand/Schneider/IndoAsian	Each		
E13.2.b.3	125 A	"	Each		
E13.2.b.4	160 A	"	Each		
E13.2.b.5	250 A	"	Each		
E13.2.c	**MCCB Four Pole Breaking Capacity 70 kA, 415V, 50Hz AC with complete accessories**				
E13.2.c.1	250 A	Legrand/Schneider/IndoAsian	Each		
E13.2.c.2	400 A	"	Each		
E13.2.c.3	630 A	"	Each		
E13.2.c.4	800 A	"	Each		
E13.3	**RCCB**				
E13.3.a	**RCCB Double Pole, Sensitivity 100mA, 230V, 50Hz AC with complete accessories**				
E13.3.a.1	16A.	Legrand/Schneider/IndoAsian	Each		
E13.3.a.2	20A.	"	Each		
E13.3.a.3	25A.	"	Each		
E13.3.a.4	32A.	"	Each		
E13.3.a.5	40A.	"	Each		
E13.3.a.6	63A.	"	Each		
E13.3.b	**RCCB Double Pole, Sensitivity 300mA, 230V, 50Hz AC with complete accessories**				
E13.3.b.1	16A	Legrand/Schneider/IndoAsian	Each		
E13.3.b.2	20A.	"	Each		
E13.3.b.3	25A.	"	Each		
E13.3.b.4	32A.	"	Each		
E13.3.b.5	40A	"	Each		
E13.3.b.6	63A.	"	Each		
E13.3.c	**RCCB Four Pole, Sensitivity 100mA, 415V, 50Hz AC with complete accessories**				
E13.3.c.1	16A.	Legrand/Schneider/IndoAsian	Each		
E13.3.c.2	25A.	"	Each		
E13.3.c.3	40A.	"	Each		
E13.3.c.4	63A.	"	Each		
E13.3.d	**RCCB Four Pole, Sensitivity 300mA, 415V, 50Hz AC with complete accessories**				
E13.3.d.1	16A.	Legrand/Schneider/IndoAsian	Each		
E13.3.d.2	25A.	"	Each		

E13.3.d.3	40A.	"	Each		
E13.3.d.4	63A.	"	Each		
E13.3.e	**Ac Motor Starter**				
E13.3.e.1	Single Phase Motor Starter 240V 50 Hz AC 25A	Legrand/Schneider/Havells/ HPL			
E13.3.e.2	Direct On Line Starter 415V AC 50Hz 20A IS/IEC 60947-4-1	"			
E14.1.a	**Distribution boards with PVC paint or Chorinted rubber paint, 3mm thickness of steel sheet, fitted with netural link, Earth bar, Din bar and detachable gland plate, A.C- Single door**				
E14.1.a.1	SP&n - 2 ways	Legrand/Schneider/IndoAsian	Set		
E14.1.a.2	SP&n - 4 ways	"	Set		
E14.1.a.3	SP&n - 6 ways	"	Set		
E14.1.a.4	SP&n - 8 ways	"	Set		
E14.1.a.5	SP&n - 12 ways	"	Set		
E14.1.a.6	SP&n - 16 ways	"	Set		
E14.1.a.7	TP &n - 4 ways	"	Set		
E14.1.a.8	TP &n - 6 ways	"	Set		
E14.1.a.9	TP &n - 8 ways	"	Set		
E14.1.a.10	TP &n - 12 ways	"	Set		
E14.1.a.11	TP &n - 16ways	"	Set		
E14.1.b	**Distribution boards with PVC paint or Chorinted rubber paint, 3mm thickness of steel sheet, fitted with netural link, Earth bar, Din bar and detachable gland plate, A.C- Double door**				
E14.1.b.1	SP&n - 2 ways	Legrand/Schneider/IndoAsian	Set		
E14.1.b.2	SP&n - 4 ways	"	Set		
E14.1.b.3	SP&n - 6 ways	"	Set		
E14.1.b.4	SP&n - 8 ways	"	Set		
E14.1.b.5	SP&n - 12 ways	"	Set		
E14.1.b.6	SP&n - 16 ways	"	Set		
E14.1.b.7	TP &n - 4 ways	"	Set		
E14.1.b.8	TP &n - 6 ways	"	Set		
E14.1.b.9	TP &n - 8 ways	"	Set		
E14.1.b.10	TP &n - 12 ways	"	Set		
E14.1.b.11	TP &n - 16ways	"	Set		
E14.1.c	**Pre-fabricated MS busbar Chamber with Copper Busbar, A.C with complete accessories**				
E14.1.c.1	63A, 2x300mm	Legrand/Schneider/IndoAsian/Hansel	Set		
E14.1.c.2	63A, 2x450mm				
E14.1.c.3	100A, 2x450mm				
E14.1.c.4	63A, 4X300mm	"	Set		
E14.1.c.5	100A, 4X300mm	"	Set		
E14.1.c.6	200, 4X300mm	"	Set		

E14.1.c.7	100A, 4X450mm	"	Set		
E14.1.c.8	200A, 4X450mm	"	Set		
E14.1.d	**Pre-fabricated MS Busbar Chamber with Alluminium Alloy Basbar, AC complete with all accessories**				
E14.1.d.2	100A, 4x600mm	"	Set		
E14.1.d.4	200A, 4x600mm	"	Set		
E14.1.d.5	300A, 4x600mm	"	Set		
E14.1.d.6	400A, 4X900mm	"	Set		
E14.1.d.7	600A, 4X900mm	"	Set		
E14.1.d.8	800A, 4X900mm	"	Set		
E14.1.d.9	400A, 4x1350mm	"	Set		
E14.1.d.10	600A, 4x1350mm	"	Set		
E14.1.d.11	800A, 4x1350mm	"	Set		
E15	**FAnS**				
E15.1.a	**Ceiling Fan 1400 rpm 3-nos bladed, suspension shall conform IS: 374 with complete accessories, 60W, 230V 50Hz AC**				
E15.1.a.1	900mm sweep	Havells/Orant/Bajaj	Set		
E15.1.a.2	1200mm sweep	"	Set		
E15.1.a.3	1400mm sweep	"	Set		
E15.1.b	**Exhaust Fan 900 rpm with Bird guard - Exhaust fan with special PVC paint or Chorinted rubber paint, 3-nos bladed with complete accessories conforming IS: 2312, 60W, 230V 50Hz AC**				
E15.1.b.1	300mm sweep	Havells/Orant/Bajaj	Set		
E15.1.b.2	380mm sweep	"	Set		
E15.1.b.3	450mm sweep	"	Set		
E15.1.b.4	600mm sweep	"	Set		
E15.1.c	**Exhaust Fan 1400 rpm with Bird guard - Exhaust fan with special PVC paint or Chorinted rubber paint, 3-nos bladed with complete accessories conforming IS: 2312, 60W, 230V 50Hz AC**				
E15.1.c.1	300mm sweep	Havells/Orant/Bajaj	Set		
E15.1.c.2	380mm sweep	"	Set		
E15.1.c.3	450mm sweep	"	Set		
E15.1.d	**Exhaust Fan Aluminium Louveres with PVC paint or Chorinted rubber paint with complete accessories conforming IS: 2312, 60W, 230V AC for :**				
E15.1.d.1	300mm sweep	Havells/V-guard/oriant	Set		
E15.1.d.2	380mm sweep	"	Set		
E15.1.d.3	450mm sweep	"	Set		
E15.1.e	**Exhaust Fan Bird Guard with paint or Chorinted rubber paint with complete accessories conforming IS: 2312, 60W, 230V AC for :**				
E15.1.e.1	300mm sweep	Havells/V-guard/oriant	Set		

E15.1.e.2	380mm sweep	"	Set		
E15.1.e.3	450mm sweep	"	Set		
E15.1.e.4	Industrial exhaust fan-450mm sweep, 1400rpm-750W complete with set as required at site.	Havells/V-guard/oriant	Set		
E15.1.f	**Fan regulators**				
E15.1.f.1	1 module, 6/10A fan regulator,230V, 100/ 300Watt (Ordinry type)	Anchor Roma/ Havells/ Crabtree	each		
E15.1.f.2	1 module, 6/10A fan regulator,230V, 100/ 300Watt (Electronic type)	Anchor Roma/ Havells/ Crabtree	each		
E16	**PIPES**				
E16.1.	**PVC Pipes**	-			
E16.1.a	**PVC Conduit Pipes 16 SWG or 3mm thickness pipe and 3m in length**				
E16.1.a.1	Medium Duty PVC conduit pipe 3/4" (20mm) dia.	Richa, Polycab , Supreme	Rft		
E16.1.a.2	Medium Duty PVC conduit pipe 1" (25mm) dia.	"	Rft		
E16.1.a.3	Light Duty PVC conduit pipe 3/4" (19mm) dia.	"	Rft		
E16.1.a.4	Light Duty PVC conduit pipe 1" (25mm) dia.	"	Rft		
E16.1.b	**PVC pipe Elbow/Tee/Corner/ Joint**				
E16.1.b.1	Medium Duty socket 1" (25mm) dia.	Richa, Polycab , Supreme	Each		
E16.1.b.2	Medium Duty socket 3/4" (20mm) dia.	"	Each		
E16.1.b.3	Medium Duty Elbow 1" (25mm) dia.	"	Each		
E16.1.b.4	Medium Duty Elbow 3/4" (20mm) dia.	"	Each		
E16.1.b.5	Medium Duty Tee 1" (25mm) dia.	"	Each		
E16.1.b.6	Medium Duty Tee 3/4" (20mm) dia.	"	Each		
E16.1.b.7	Medium Duty End cap 1" (25mm) dia.	"	Each		
E16.1.b.8	Medium Duty End cap 3/4" (20mm) dia.	"	Each		
E16.1.b.9	Medium Duty cross tee 1" (25mm) dia.	"	Each		
E16.1.b.10	Medium Duty cross tee 3/4" (20mm) dia.	"	Each		
E16.1.b.11	Medium Duty Long bend Bend 3/4"(20 mm)	"			
E16.1.b.12	Medium Duty Long bend Bend 1" (25 mm)	"			
E16.1.c	**PVC Circular Boxes 16 SWG thickness ways**				
E16.1.c.1	Medium Duty PVC circular box 3/4" dia. x (1,2,3,4) ways	Richa, Polycab , Supreme	Each		

E16.1.c.2	Medium Duty PVC circular box 1" dia. x (1,2,3,4) ways	"	Each		
E16.1.c.3	Light Duty PVC circular box 3/4" dia. x (1,2,3,4) ways	"	Each		
E16.1.c.4	Light Duty PVC circular box 1" dia. x (1,2,3,4) ways	"	Each		
E16.1.d	**Flexible Pipes - PVC**				
E16.1.d.1	PVC Corrugated Flexible pipe (Goose neck Pipe) 3/4" dia.	Standard Quality	Metre		
E16.1.d.2	PVC Corrugated Flexible pipe (Goose neck Pipe) 1" dia.	"	Metre		
E16.1.e	**CP Saddles - Cromium plated Al. alloy Saddle**	Standard Quality			
E16.1.e.1	3/4" dia.	"	Dozen		
E16.1.e.2	1" dia.	"	Dozen		
E16.2.	**PVC Casing & Capping**				
E16.2.a	**PVC Casing & Capping double locking arrangement (double grooves), 1.2mm thickness, 2.5m long**				
E16.2.a.1	Medium Duty PVC casing capping 1/2" width(13 W x 12 B x1.2 T mm)	Richa, Harsh	Each		
E16.2.a.2	Medium DutyPVC casing capping 3/4" width (20x12x1.2mm)	Richa, Harsh	Each		
E16.2.a.3	Medium DutyPVC casing capping 1" width (25x10x1.2mm)	"	Each		
E16.2.a.4	Medium DutyPVC casing capping 1 1/2" width (40x10x1.2mm)	"	Each		
E16.2.a.5	Medium DutyPVC casing capping 2" width (50x10x1.2mm)	"	Each		
E16.2.a.6	Light Duty PVC casing capping 1/2" width(13 W x 12 B x1.2 T mm)	"	Each		
E16.2.a.7	Light DutyPVC casing capping 3/4" width (20x12x1.2mm)	"	Each		
E16.2.a.8	Light DutyPVC casing capping 1" width (25x10x1.2mm)	"	Each		
E16.2.a.9	Light DutyPVC casing capping 1 1/2" width (40x10x1.2mm)	"	Each		
E16.2.a.10	Light DutyPVC casing capping 2" width (50x10x1.2mm)	"	Each		
E16.2.b	**PVC Cassing Elbow/Tee/Corner/ Joint**				
E16.2.b.1	Medium Duty PVC cassing Elbow/Tee/Corner/ Joint/ (1/2") width (13x12x1.2mm)	Richa, Harsh	Each		
E16.2.b.2	Medium Duty PVC cassing Elbow/Tee/Corner/ Joint/ (3/4") width (20x12x1.2mm)	"	Each		

E16.2.b.3	Medium Duty PVC cassing Elbow/Tee/Corner/ Joint/ (1") width (25x10x1.2mm)	"	Each		
E16.2.b.4	Medium Duty PVC cassing Elbow/Tee/Corner/ Joint/ (1 1/2") width (40x10x1.2mm)	"	Each		
E16.2.b.5	Medium Duty PVC cassing Elbow/Tee/Corner/ Joint/ (2") width (50x10x1.2mm)	"	Each		
E16.2.b.6	Light Duty PVC cassing Elbow/Tee/Corner/ Joint/ (1/2") width (13x12x1.2mm)	"	Each		
E16.2.b.7	Light Duty PVC cassing Elbow/Tee/Corner/ Joint/ (3/4") width (20x12x1.2mm)	"	Each		
E16.2.b.8	Light Duty PVC cassing Elbow/Tee/Corner/ Joint/ (1") width (25x10x1.2mm)	"	Each		
E16.2.b.9	PVC cassing Elbow/Tee/Corner/ Joint/ (1 1/2") width (40x10x1.2mm)	"	Each		
E16.2.b.10	Light Duty PVC cassing Elbow/Tee/Corner/ Joint/ (2") width (50x10x1.2mm)	Richa, Harsh	Each		
E16.2.b.11	Light Duty PVC Square Box 4"x4" size, 1.2 mm thick	"	Each		
E16.2.b.12	Medium Duty PVC Square Box 4"x4" size, 1.2 mm thick	"	Each		
E16.2.c.1	M.S Conduit pipes 16SWG thickness pipe and 3 m in length-3/4" dia.	Standard Quality	Rft		
E16.2.c.2	M.S Conduit pipes 16SWG thickness pipe and 3 m in length-1" dia.	Standard Quality	Rft		
E16.2.d	**M.S. Circular 16 SWG thickness, solid drawn or stoved enmeled surface with threaded at all the ends**				
E16.2.d.1	M.S. circular box 3/4" dia. x (1,2,3,4) ways	Anchor/ MK/ Crabtree/IndoAsian	Each		
E16.2.d.2	M.S. circular box 1" dia. x (1,2,3,4) ways	"	Each		
E16.2.e.1	M.S Elbow and Tees 16 SWG thickness pipe, solid drawn or stoved enmeled surface-3/4" dia	Anchor/ MK/ Crabtree/IndoAsian	each		
E16.2.e.2	M.S Elbow and Tees 16 SWG thickness pipe, solid drawn or stoved enmeled surface-1" dia	Anchor/ MK/ Crabtree/IndoAsian	each		
E17	**BOXES**				
E17.1.a	**GALVAnISED METAL BOXES (Module)**				
E17.1.a.1	1 & 2	Anchor/ MK/ Crabtree/IndoAsian	Each		
E17.1.a.2	3	"	Each		

E17.1.a.3	4	"	Each		
E17.1.a.4	6	"	Each		
E17.1.a.5	8	"	Each		
E17.1.a.6	12	"	Each		
E17.1.a.7	2 moudle x 4, 6A (Vertical)	"	Each		
E17.1.a.8	2 moudle x 6, 6A (Vertical)	"	Each		
E17.1.a.9	4 moudle x 2, 6A (Vertical)	"	Each		
E17.1.b	**SURFACE PVC BOXES (GAnG BOX-Way)**				
E17.1.b.1	1 & 2	Anchor/ MK/ Crabtree/IndoAsian	Each		
E17.1.b.2	3	"	Each		
E17.1.b.3	4	"	Each		
E17.1.b.4	6	"	Each		
E17.1.b.5	8	"	Each		
E17.1.b.6	12	"	Each		
E17.1.b.7	2 moudle x 4, 6A (Vertical)	"	Each		
E17.1.b.8	2 moudle x 6, 6A (Vertical)	"	Each		
E17.1.b.9	4 moudle x 2, 6A (Vertical)	"	Each		
E17.1.c	**Bakalite Sheet 4mm thick**				
E17.1.c.1	Bakalite sheet (Sq.Inch)	Standard Quality	Sq.In.		
E17.1.d	**PVC Round Sheet 4-5 mm thick**				
E17.1.d.1	PVC Round Sheet (Sq. Inch)	Havells	Sq.In.		
E18	**EARTHING**				
E18.1.a.1	G.I . Earthing Plate(300x300x6) mm with suitable nuts and bolts	Standard Quality	Set		
E18.1.a.2	G.I . Earthing Plate(600x600x6) mm with suitable nuts and bolts	"	Set		
E18.1.a.3	Copper earthing plate(600x600x3)mm with suitable nuts and bolts	"	Set		
E18.1.a.4	C.I cover plate with locking arrangement- (30x30x38)mm	"	Set		
E18.1.a.5	Lightining Arrestors	"			
E18.1.a.6	Copper strip (12x38)mm	"	Kg.		
E18.1.a.7	G.I. strip (12x38)mm	"	Kg.		
E18.1.a.8	Copper wire - 6 SWG.	"	Kg.		
E18.1.a.9	Copper wire - 8 SWG.	"	Kg.		
E18.1.a.10	G.I. wire - 6 SWG.	"	Kg.		
E18.1.a.11	G.I. wire - 8 SWG.	"	Kg.		
E18.1.a.12	Charcoal (50Kg sized bag)	"	Bag		
E18.1.a.13	Salt (35Kg sized bag)	"	Bag		

E18.2	**Slab Earthing**				
E18.2.a.1	5 ft x 1 ft Earthing Slab-including 6 inches GI flat protrusion from each end with Thickness ~ 1.5 inches and One 12 mm hole provided at each end of GI flat for bolting	Drukcare			
E18.2.b	**GEE Slab connector ((GI earthing conductor)**	Drukcare			
E18.2.a.3	25 x 5 mm GI flat	Drukcare	each		
E18.2.a.4	25 x 3 mm GI flat	Drukcare	each		
E19	**MISCELLANEOUS**				
E19.1.a.1	PVC insulation tape, steel grip, 0.125mm thickness x 18mmWidth x 9m length type	Anchor make / Standard Quality	Roll		
E19.1.a.2	Empire tape impragneted	"	Roll		
E19.1.a.3	PVC sleeves, impragneted varnish	"	Meter		
E19.1.a.4					
E19.1.a.5	PVC casing pin (3/4", 1/2", 1", 11/2', 2", & 21/2")	Standard Quality	Pkt.		
E19.1.a.6	Machine Screw (1/2"-2 1/2") of 3mm dia.	"	Pkt.		
E19.1.a.7	Soldering wire 0.6mm dia. Lead free	"	Reel		
E19.1.a.8	Soldering solder flux paste	"	Tin		
E19.1.a.9	Bakelite Sheet	Standard Quality	SqIn		
E19.2.a	**Water Geyser 240v ,AC**				
E19.2.a.1	3 L	Venus, Haier,Jaquar			
E19.2.a.2	5 L	"	each		
E19.2.a.3	6 L	"	each		
E19.2.a.4	10 L	"	each		
E19.2.a.5	15 L	"	each		
E19.2.a.6	25 L (Horizontal)	"	each		
E19.2.a.7	30 L (Horizontal)	"	each		
E19.2.a.8	35 L (Horizontal)	"	each		
E19.2.a.9	40 L (Horizontal)	"	each		
E19.2.a.10	70 L (Horizontal)	"	each		
E19.2.a.11	100 L (Horizontal)	"	each		
E19.2.a.12	25 L (Vertical)	"	each		
E19.2.a.13	30 L (Vertical)	"	each		
E19.2.a.14	35 L (Vertical)	"	each		
E19.2.a.15	40 L (Vertical)	"	each		
E19.2.a.16	70 L (Vertical)	"	each		
E19.2.a.17	100 L (Vertical)	"	each		
E19.2.b	**Water Geyser coil 240V, AC**				
E19.2.b.1	1000 Watt, 240V, AC	Venus, Haier,Jaquar	Each		
E19.2.b.2	1500 Watt, 240V, AC	"	Each		

E19.2.b.3	2000 Watt, 240V, AC	"	Each		
E19.2.b.4	2500 Watt, 240V, AC	"	Each		
E19.2.b.5	Thermostat for water Geyser 1.5A, 230V, AC	"	Each		
E19.2.b.6	Water Geyser connector	"	Each		
E19.2.c	**Instant kitchen Geysers**				
E19.2.c.1	**1L** 3KW	Havells, V-Guard, Crompton, Bajaj			
E19.2.c.2	**3L** 3KW	Havells, V-Guard, Crompton, Bajaj			
E19.2.c.3	**15L** 2KW	Havells, V-Guard, Crompton, Bajaj			
E20.1.a	**Contractor**				
E20.1.a.1	contractor-10A (3no main contact & 2nC)	Legrand/ Schneider	Each		
E20.1.a.2	contractor-25A (nO, 3P)	Legrand/ Schneider	Each		
E20.1.a.3	contractor-40A (nO, 3P)	Legrand/ Schneider	Each		
E20.1.a.4	contractor-63A (nO, 3P)	Legrand/ Schneider	Each		
E20.1.a.5	contractor-25A (nO, 4P)	Legrand/ Schneider	Each		
E20.1.a.6	contractor-40A (nO, 4P)	Legrand/ Schneider	Each		
E20.1.a.7	contractor-63A (nO, 4P)	Legrand/ Schneider	Each		
E20.1.b	**DIGITAL TIMER SWITCHES with all the accessories**				
E20.1.b.1	Alpharex Digital timer switches,D21 astro, 1 channel	Legrand/ Schneider	Each		
E20.1.b.2	Alpharex Digital timer switches, D22 astro, 1 channel	Legrand/ Schneider	Each		
E20.1.c	**Split type A.C**				
E20.1.c.1	1 tonne	Bluestar/ Daikin/ Samsung	Each		
E20.1.c.2	1.5 tonne	"	Each		
E20.1.c.3	2 tonne	"	Each		
E20.1.c.4	Ceiling Mounted Air Conditioners	Mitsubishi/ Bluestar/ Daikin/ Samsung	Each		
E21.1.a	**UPVC pannel Trunking**				
E21.1.a.1	35 X 25 mm	Legrand/ IndoAsian/Hansel	meter		
E21.1.a.2	45 X 25 mm	"	meter		
E21.1.a.3	25 X 25 mm	"	meter		
E21.1.b	**Nylon Cable Tie**				
E21.1.b.1	100 mm length 2.5 mm width	"	each		
E21.1.b.2	140 mm length 3.6 mm width	"	each		
E21.1.b.3	200 mm length 4.8 mm width	"	each		
E21.1.b.4	300 mm length 7.6 mm width	"	each		
E21.1.b.5	370 mm length 4.8 mm width	"	each		
E21.1.c	**U-pin**				

E21.1.c.1	15 mm dia	"	each		
E21.1.c.2	20 mm dia	"	each		
E21.1.d	**Cable Tray- Ladder galvanised heavy duty Tray for power cables along with coupler sets & fittings(Universal Brackets,90 degree flat bends, adjustable bends 90 degree inside riser, 90 degree outside riser, adjustable riser)**				
E21.1.d.1	50 mm	Legrand/ IndoAsian/Hansel	each		
E21.1.d.2	75 mm	"	each		
E21.1.d.3	100 mm	"	each		
E21.1.d.4	150 mm	"	each		
E21.1.d.5	225 mm	"	each		
E21.1.d.6	300 mm	"	each		
E21.1.d.7	450 mm	"	each		
E22.1.a	Industrial type plug and socket outlet-4-pole,63A with earth terminal and incoming control gear MCB-4pole,63A etc., as complete with set as required at site.	Legrand/Equivalent	set		

Annexure- III
LIST OF MATERIALS FOR PLMUBING ITEMS FOR THE YEAR 2023

The brand quoted for Equivalent should be mentioned in Remarks. If not mentioned, the brand will be assumed as the one specified by the purchaser.

Sl.No.	DESCRIPTION / SPECIFICATION OF ITEM	BRAND	UNIT	RATE	REMARKS
3.1	**WASH BASIN**				
3.1.1	Wash basin 630X 450 white	Sanitary , Somany, Jaguar.	Each		
3.1.2	- do - colour	Sanitary , Somany, Jaguar.	Each		
3.1.3	Round wash basin 19" dia white	Sanitary , Somany, Jaguar.	Each		
3.1.4	Wash basin 550X400MM white	Sanitary , Somany, Jaguar.	Each		
3.1.5	- do - colour	Sanitary , Somany, Jaguar.	Each		
3.1.6	Angle wash basin 400X400 MM dia white	Sanitary , Somany, Jaguar.	Each		
3.1.7	- do - colour	Sanitary , Somany, Jaguar.	Each		
3.1.8	Wash basin padestel white	Sanitary , Somany, Jaguar.	Each		
3.1.9	- do - colour	Sanitary , Somany, Jaguar.	Each		
3.1.10	Wash basin 630X 450 white including Pedestrian, pillar cock 1/2", CP and PVC waste coupling, PVC waste pipe.	Sanitary , Somany, Jaguar.	set		
3.1.11	- do - colour	Sanitary , Somany, Jaguar.	Each		
3.2	**TOILET PAPER HOLDER**				
3.2.1	SS roll type holder	Standard Quality	Each		
3.2.2	SS roll type holder with flap	Standard Quality	Each		
3.2.3	C.P. toilet paper holder heavy	Standard Quality	Each		
3.3	**SOAP DISK**				
3.3.1	SS Soap disk	Standard Quality	Each		
3.3.2	CP Soap disk	Standard Quality	Each		
3.4	**WATER CLOSET AND CISTERN**				
3.4.1	E.T.W.C. & cistern complete with fitting single syphonic white	Sanitary , Somany, Jaguar.	set		
3.4.2	- do - colour	Sanitary , Somany, Jaguar.	set		
3.4.3	ETWC and cistern complete with fitting double syphonic white and commode cover	Sanitary , Somany, Jaguar.	set		
3.4.4	E.T.W.C. & cistern complete with fitting P or S trap, pvc connection pipe and commode cover.	Sanitary , Somany, Jaguar.	set		

3.4.5	- do - colour	Sanitary , Somany, Jaguar.	set		
3.4.6	ETWC pan only white (P trap)	Sanitary , Somany, Jaguar.	Each		
3.4.7	ETWC pan only white (S Trap)	Sanitary , Somany, Jaguar.	Each		
3.4.8	PVC Cistern with fittings 10 Ltr	Hindware , Somany, Jaguar.	Each		
3.4.9	PVC Cistern with fittings 15 Ltr	Hindware , Somany, Jaguar.	set		
3.4.10	ETWC pan only white with commad cover.	Hindware , Somany, Jaguar.	set		
3.4.11	- do - colour with commad cover	Hindware , Somany, Jaguar.	set		
3.4.12	ETWC Ceramic with cistern attached & all fittings white P Trap	Perryware, Somany, Jaquar.	set		
3.4.13	ETWC Ceramic with cistern attached & all fittings white S Trap	Perryware, Somany, Jaquar.	set		
3.4.14	ETWC Vetrous China with cistern & all fittings white	Hindware , Somany, Jaguar.	Each		
3.4.15	- do - colour	Hindware , Somany, Jaguar.	Each		
3.4.16	ETWC Vetrous China Low down cistern fitting only single syphonic.	Sanitary , Somany, Jaguar, Jal	Set		
3.4.17	- do - double syphonic	Sanitary , Somany, Jaguar, Jal	Set		
3.4.18	ITWC pan 20" white	Sanitary , Somany, Jaguar, Jal	Each		
3.4.19	- do - 22" white	Sanitary , Somany, Jaguar, Jal	Each		
3.4.20	ITWC pan 20" white (Orissa)	Sanitary , Somany, Jaguar, Jal	Each		
3.4.21	- do - 22" colour (Orissa)	Sanitary , Somany, Jaguar, Jal	Each		
3.4.22	ITWC pan 20" white with foot rest and P or S trap / Syphone	Sanitary , Somany, Jaguar, Jal	set		
3.4.23	Comode Seat with lid plastic heavy quality white	Sanitary , Somany, Jaguar, Jal	Set		
3.4.24	- do - colour	Sanitary , Somany, Jaguar, Jal	Set		
3.4.25	ETWC and supreme pvc cistern complete with fitting pvc connection pipe and commode cover	Sanitary , Somany, Jaguar, Jal	set		
3.4.26	Ceramic cistern with fittings 10 Ltr	Sanitary , Somany, Jaguar, Jal	set		
3.4.27	Ceramic cistern with fittings 15 Ltr	Sanitary , Somany, Jaguar, Jal	set		
3.4.28	Low down cistern with pvc connection pipe1/2"x 24"	Sanitary , Somany, Jaguar, Jal	set		
3.4.29	PVC cistern with all fittings	Sanitary , Somany, Jaguar, Jal	set		
3.4.30	Ceramic S or P trap / Syphone	Standard Quality	Each		
3.4	**GLASS SHELF**				
3.4.1	24"x5" C.P. glass shelf with glass	Standard Quality	each		
3.4.2	18"x5" C.P. - do -	Standard Quality	each		
3.4.3	24"x5" Aluminium glass shelf with glass	Standard Quality	each		
3.4.4	18"x5" Aluminium - do -	Standard Quality	each		

3.5	**TOWEL RAIL AND MIRROR**				
3.5.1	S.S towel 18"	Standard Quality	Each		
3.5.2	S.S towel 24"	Standard Quality	Each		
3.5.3	S.S towel (Ring Type)	Standard Quality	Each		
3.5.4	S.S Coat Hook (Single)	Standard Quality	Each		
3.5.5	C.P. towel 18"	Standard Quality	Each		
3.5.6	C.P. towel 24"	Standard Quality	Each		
3.5.7	C.P. towel (Ring Type)	Standard Quality	Each		
3.5.8	C.P Coat Hook (Single)	Standard Quality	Each		
3.5.9	Bathroom mirror with frame 24"x18"	Standard Quality	Each		
3.5.10	Bathroom mirror with frame (Oval)	Standard Quality	Each		
3.5.11	Bevelled Bathroom mirror with frame 24"x18" including 4mm AC Sheet Base	Standard Quality	Each		
3.5.12	Bathroom mirror with frame 12"x18"	Standard Quality	Each		
3.5.13	Bathroom mirror with frame 20"x16"	Standard Quality	Each		
3.5.14	Bathroom mirror with frame 12"x16"	Standard Quality	Each		
3.5.15	Bathroom mirror without frame 24"x18" (including drilled holes and screws)	Standard Quality	Each		
3.5.16	Bathroom mirror without frame 20"x16" (including drilled holes and screws)	Standard Quality	Each		
3.6	**Grating and Traps**				
3.6.1	C.I. grating 6"lining	Standard Quality	Each		
3.6.2	C.P. grating 3" lining	Standard Quality	Each		
3.6.3	C.P. grating 4" lining	Standard Quality	Each		
3.6.4	C.P. grating 4" Round	Standard Quality	Each		
3.6.5	C.P. grating 6" Round	Standard Quality	Each		
3.6.6	C.P grating with hole in the center 3"	Standard Quality	Each		
3.6.7	C.P grating with hole in the center 4"	Standard Quality	Each		
3.6.8	C.P grating with hole in the center 6"	Standard Quality	Each		
3.6.9	PVC. grating 3" Round	Standard Quality	Each		
3.6.10	PVC. grating 4" Round	Standard Quality	Each		
3.6.11	PVC. grating 6" Round	Standard Quality	Each		
3.6.12	PVC trap 2" outlet & 3" Inlet	Standard Quality	Each		
3.6.13	PVC trap 4" Inlet & 3" Outlet	Standard Quality	Each		
3.6.14	PVC trap 4" Inlet & 2" Outlet	Standard Quality	Each		
3.7	**CONNECTION PIPES AND COUPLINGS**				
3.7.1	1/2"x18" PVC connection pipe	Standard Quality	Each		
3.7.2	1/2"x24" PVC connection pipe	Standard Quality	Each		
3.7.3	1/2"x32" PVC connection pipe	Standard Quality	Each		
3.7.4	PVC waste pipe 32 mm dia	Standard Quality	Each		
3.7.5	- do - 40 mm dia	Standard Quality	Each		
3.7.6	C.P. waste coupling 32 mm dia	Standard Quality	Each		
3.7.7	- do - 40 mm dia	Standard Quality	Each		

3.7.8	PVC. waste coupling 32 mm dia	Standard Quality	Each		
3.7.9	- do - 40 mm dia	Standard Quality	Each		
3.7.10	C.P. connection 1/2"x18"	Standard Quality	Each		
3.7.11	C.P. connection 1/2"x24"	Standard Quality	Each		
3.7.12	C.P. connection 1/2"x32"	Standard Quality	Each		
3.7.13	CP sink coupling 32 mm	Standard Quality	Each		
3.7.14	CP sink coupling 40 mm	Standard Quality	Each		
3.8	**CP/ BRASS STOP COCK**				
3.8.1	1/2" C.P. Concealed stop cock	Kohli-G,PIC, Essco	Each		
3.8.2	1/2" C.P. angle valve	Kohli-G,PIC, Essco	Each		
3.8.3	1/2" C.P. stop cock	Kohli-G,PIC, Essco	Each		
3.8.4	1/2" brass stop cock	Kohli-G,PIC, Essco	Each		
3.8.5	1/2" C.P. Nozzel bib cock	Kohli-G,PIC, Essco	Each		
3.8.6	1/2" Non-return valve	Kohli-G,PIC, Essco	Each		
3.8.7	3/4" Non-return valve	Kohli-G,PIC, Essco	Each		
3.8.8	1" Non-return valve	Kohli-G,PIC, Essco	Each		
3.8.9	1 1/2" Non-return valve	Kohli-G,PIC, Essco	Each		
3.9	**CP BRASS PILLAR AND BIBCOCK**				
3.9.1	1/2" C.P. bib cock	Kohli-G,PIC, Essco	Each		
3.9.2	1/2" C.P. bib cock with long nose	Kohli-G,PIC, Essco	Each		
3.9.3	1/2" C.P. pillor cock	Kohli-G,PIC, Essco	Each		
3.9.4	Brass bib cock 1/2" Standard Quality	Kohli-G,PIC, Essco	Each		
3.9.5	Brass bib cock 1/2" Standard Quality	Kohli-G,PIC, Essco	Each		
3.9.6	Brass Nozzel type bib cock 1/2"	Kohli-G,PIC, Essco	Each		
3.10	**CP WALL MIXERS AND SHOWER**				
3.10.1	C.P. wall mixers with telephonic shower complete	Essco/heavy duty	Set		
3.10.2	C.P. wall mixers	Essco/heavy duty	Set		
3.10.3	C.P. wall mixers with long neck	Essco/heavy duty	Set		
3.10.4	C.P. wash basin mixers single hole	Essco/heavy duty	Set		
3.10.5	C.P. wash basin mixer long neck	Essco/heavy duty	Set		
3.10.6	C.P. kitchen sink mixer	Essco/heavy duty	No.		
3.10.7	C.P. shower nose adjustable	Essco/heavy duty	No.		
3.10.8	C.P. telephonic shower with 3 mtr. chord	Essco/heavy duty	No.		
3.10.9	CP Shower arm 150mm	Essco/heavy duty	No.		
3.10.10	CP Shower arm 225mm	Essco/heavy duty	No.		
3.10.11	CP Shower head	Essco/heavy duty	No.		
3.10.12	Flexible shower tube and shower head	Essco/heavy duty	No.		
3.10.13	C.P.bath tub mixers with telephonic shower complete	Heavy Duty	Set		
3.10.14	C.P.bath tub mixers	Heavy Duty	Set		
3.10.15	CP health fauset(HD)	Heavy Duty	Set		
3.11	**BATH TUBS**				

3.11.1	Bath tub polymarble with handle waste coupling and plug complete white (5')	Standard Quality	Set		
3.11.2	-do- colour	Standard Quality	set		
3.11.3	Bath tub polymarble with handle waste coupling and plug complete white (4')	Standard Quality	Set		
3.11.4	Bath tub polymarble with handle waste coupling and plug complete coulour (4')	Standard Quality	Set		
3.11.5	Bath tub Acrylic with handle, over flow, waste coupling and plug complete white (5')	Standard Quality	set		
3.11.6	- do - colour	Standard Quality	Set		
3.11.7	Bath tub Acrylic 6' with handle, over flow, waste coupling and plug complete	Standard Quality	Set		
3.11.8	Bath tub Acrylic 5 1/2' with handle, over flow, waste coupling and plug complete	Standard Quality	Set		
3.11.9	Bath tub Acrylic 4' with handle, over flow, waste coupling and plug complete	Standard Quality	Set		
3.11.10	Chain and plug for waste basin superior quality	Standard Quality	Set		
3.12	**WATER TANK**				
3.12.1	Water Tank	North- East, Ployp4, SBM Gold	Per Ltr.		
3.12.2	Water Tank	Rabten or equivalent (Bhutan made)	Per Ltr.		
3.13	**BRASS GATE VALVES**				
3.13.1	Gate way valve 1/2" Standard Quality heavy	Kohli,PIC, ESSCO	Each		
3.13.2	- do - 3/4" - do -	Kohli,PIC, ESSCO	Each		
3.13.3	- do - 1" - do -	Kohli,PIC, ESSCO	Each		
3.13.4	- do - 1 1/4" - do -	Kohli,PIC, ESSCO	Each		
3.13.5	- do - 1 1/2" - do -	Kohli,PIC, ESSCO	Each		
3.13.6	- do - 2" - do -	Kohli,PIC, ESSCO	Each		
3.13.7	- do - 2 1/2" - do -	Kohli,PIC, ESSCO	Each		
3.13.8	- do - 3" - do -	Kohli,PIC, ESSCO	Each		
3.13.9	- do - 4" - do -	Kohli,PIC, ESSCO	Each		
3.13.10	CI gate valve 2" plain	Heavy Duty	set		
3.13.11	CI gate valve 3" plain	Heavy Duty	set		
3.13.12	CI gate valve 4" plain	Heavy Duty	set		
3.13.13	CI gate valve 2" flange type	Heavy Duty	set		
3.13.14	CI gate valve 3" flange type	Heavy Duty	set		
3.13.15	CI gate valve 4" flange type	Heavy Duty	set		
3.14	**GI PIPES**				
3.14.1	1/2" dia G.I. pipe	Bansal, Utkarsh, PKM, Zento	Rft.		
3.14.2	3/4" - do -	Bansal, Utkarsh, PKM, Zento	Rft.		

3.14.3	1 1/4" - do -	Bansal, Utkarsh, PKM, Zento	Rft.		
3.14.4	1" - do -	Bansal, Utkarsh, PKM, Zento	Rft.		
3.14.5	1 1/2" - do -	Bansal, Utkarsh, PKM, Zento	Rft.		
3.14.6	2" -do-	Bansal, Utkarsh, PKM, Zento	Rft.		
3.14.7	2 1/2" -do-	Bansal, Utkarsh, PKM, Zento	Rft.		
3.14.8	3" -do-	Bansal, Utkarsh, PKM, Zento	Rft.		
3.14.9	4" -do-	Bansal, Utkarsh, PKM, Zento	Rft.		
3.15	**GI FITTINGS & SOCKETS**				
3.15.1	G.I. socket 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.2	- do - 3/4"	Kohli, NVR,PKM, Zento	Each		
3.15.3	- do - 1"	Kohli, NVR,PKM, Zento	Each		
3.15.4	- do - 1 1/4"	Kohli, NVR,PKM, Zento	Each		
3.15.5	- do - 1 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.6	- do - 2"	Kohli, NVR,PKM, Zento	Each		
3.15.7	-do- 2 1/2 "	Kohli, NVR,PKM, Zento	Each		
3.15.8	-d0- 3"	Kohli, NVR,PKM, Zento	Each		
3.15.9	-d0- 4"	Kohli, NVR,PKM, Zento	Each		
	G.I Union				
3.15.10	G.I. union 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.11	- do - 3/4"	Kohli, NVR,PKM, Zento	Each		
3.15.12	- do - 1"	Kohli, NVR,PKM, Zento	Each		
3.15.13	- do - 1 1/4"	Kohli, NVR,PKM, Zento	Each		
3.15.14	- do - 1 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.15	- do - 2"	Kohli, NVR,PKM, Zento	Each		
3.15.16	-do- 2 1/2 "	Kohli, NVR,PKM, Zento	Each		
3.15.17	-d0- 3"	Kohli, NVR,PKM, Zento	Each		
3.15.18	-d0- 4"	Kohli, NVR,PKM, Zento	Each		
	G.I Elbow				
3.15.19	G.I. elbow 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.20	- do - 3/4"	Kohli, NVR,PKM, Zento	Each		

3.15.21	- do - 1"	Kohli, NVR,PKM, Zento	Each		
3.15.22	G.I. elbow 1 1/4"	Kohli, NVR,PKM, Zento	Each		
3.15.23	G.I. elbow 1 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.24	- do - 2"	Kohli, NVR,PKM, Zento	Each		
3.15.25	-do- 2 1/2 "	Kohli, NVR,PKM, Zento	Each		
3.15.26	-d0- 3"	Kohli, NVR,PKM, Zento	Each		
3.15.27	-d0- 4"	Kohli, NVR,PKM, Zento	Each		
	G.I Tee	Kohli, NVR,PKM, Zento			
3.15.28	G.I. equal tee 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.29	- do - 3/4"	Kohli, NVR,PKM, Zento	Each		
3.15.30	- do - 1"	Kohli, NVR,PKM, Zento	Each		
3.15.31	- do - 1 1/4"	Kohli, NVR,PKM, Zento	Each		
3.15.32	- do - 1 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.33	- do - 2"	Kohli, NVR,PKM, Zento	Each		
3.15.34	-do- 2 1/2 "	Kohli, NVR,PKM, Zento	Each		
3.15.35	-d0- 3"	Kohli, NVR,PKM, Zento	Each		
3.15.36	-d0- 4"	Kohli, NVR,PKM, Zento	Each		
	G.I HEX NIPPLE				
3.15.37	G.I. hex nipple 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.38	- do - 3/4"	Kohli, NVR,PKM, Zento	Each		
3.15.39	- do - 1"	Kohli, NVR,PKM, Zento	Each		
3.15.40	- do - 1 1/4"	Kohli, NVR,PKM, Zento	Each		
3.15.41	- do - 1 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.42	- do - 2"	Kohli, NVR,PKM, Zento	Each		
3.15.43	-do- 2 1/2 "	Kohli, NVR,PKM, Zento	Each		
3.15.44	-d0- 3"	Kohli, NVR,PKM, Zento	Each		
3.15.45	-d0- 4"	Kohli, NVR,PKM, Zento	Each		
	G.I NIPPLE				
3.15.46	G.I. plain nipple 1/2"x2" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.47	G.I. plain nipple 1/2"x3" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.48	G.I. plain nipple 1/2"x4" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		

3.15.49	G.I. plain nipple 1/2"x6" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.50	G.I. plain nipple 1/2"x8" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.51	G.I. plain nipple 3/4"x2" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.52	G.I. plain nipple 3/4"x3" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.53	G.I. plain nipple 3/4"x4" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.54	G.I. plain nipple 3/4"x6" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.55	G.I. plain nipple 3/4"x8" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.56	G.I. plain nipple 3/4"x10" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.57	G.I. plain nipple 1"x2" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.58	G.I. plain nipple 1"x3" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.59	G.I. plain nipple 1"x4" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.60	G.I. plain nipple 1"x6" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.61	G.I. plain nipple 1"x8" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.62	G.I. plain nipple 11/4"x2" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.63	G.I. plain nipple 1 1/4"x3" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.64	G.I. plain nipple 1 1/4"x4" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.65	G.I. plain nipple 1 1/4"x6" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.66	G.I. plain nipple 1 1/4"x8" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.67	G.I. plain nipple 11/2"x2" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.68	G.I. plain nipple 1 1/2"x3" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.69	G.I. plain nipple 1 1/2"x4" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.70	G.I. plain nipple 1 1/2"x6" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.71	G.I. plain nipple 1 1/2"x8" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.72	G.I. plain nipple 2"x2" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.73	G.I. plain nipple 2"x3" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.74	G.I. plain nipple 2"x4" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.75	G.I. plain nipple 2"x6" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.76	G.I. plain nipple 2"x8" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.77	G.I. plain nipple 2 $^{1/2}$" x2" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.78	G.I. plain nipple 2 $^{1/2}$" x3" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		

3.15.79	G.I. plain nipple 2 1/2" x4" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.80	G.I. plain nipple 2 1/2" x6" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.81	G.I. plain nipple 2 1/2" x8" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.82	G.I. plain nipple 3"x2" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.83	G.I. plain nipple 3"x3" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.84	G.I. plain nipple 3"x4" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.85	G.I. plain nipple 3"x6" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.86	G.I. plain nipple 3"x8" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.87	G.I. plain nipple 4"x2" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.88	G.I. plain nipple 4"x3" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.89	G.I. plain nipple 4"x4" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.90	G.I. plain nipple 4"x6" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.91	G.I. plain nipple 4"x8" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.92	G.I. plain nipple 4"x10" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
3.15.93	G.I. plain nipple 4"x12" (barrel nipple)	Kohli, NVR,PKM, Zento	Each		
	G.I BEND				
3.15.94	G.I. bend 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.95	G.I. bend 3/4"	Kohli, NVR,PKM, Zento	Each		
3.15.96	G.I. bend 1"	Kohli, NVR,PKM, Zento	Each		
3.15.97	G.I. bend 1 1/4"	Kohli, NVR,PKM, Zento	Each		
3.15.98	G.I. bend 1 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.99	G.I. bend 2"	Kohli, NVR,PKM, Zento	Each		
3.15.100	G.I. bend 2 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.101	G.I. bend 3"	Kohli, NVR,PKM, Zento	Each		
3.15.102	G.I. bend 4"	Kohli, NVR,PKM, Zento	Each		
	G.I REDUCER ELBOW				
3.15.103	G.I. reducer elbow 1"x 3/4"	Kohli, NVR,PKM, Zento	Each		
3.15.104	- do - 1"X1/2'	Kohli, NVR,PKM, Zento	Each		
3.15.105	- do - 1"X11/4"	Kohli, NVR,PKM, Zento	Each		
3.15.106	- do - 1"X11/2"	Kohli, NVR,PKM, Zento	Each		

3.15.107	- do - 1"X 2"	Kohli, NVR,PKM, Zento	Each		
3.15.108	- do - 1" X 2 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.109	- do - 1 1/2" X1/2'	Kohli, NVR,PKM, Zento	Each		
3.15.110	- do - 1 1/2" X11/4"	Kohli, NVR,PKM, Zento	Each		
3.15.111	- do - 1 1/2" X11/2"	Kohli, NVR,PKM, Zento	Each		
3.15.112	- do - 1 1/2" X 2"	Kohli, NVR,PKM, Zento	Each		
3.15.113	- do - 1 1/2 ' X 2 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.114	- do - 2" X1/2'	Kohli, NVR,PKM, Zento	Each		
3.15.115	- do - 2" X11/4"	Kohli, NVR,PKM, Zento	Each		
3.15.116	- do - 2" X11/2"	Kohli, NVR,PKM, Zento	Each		
3.15.117	- do - 2" X 2"	Kohli, NVR,PKM, Zento	Each		
3.15.118	- do - 2 ' X 2 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.119	- do - 2 1/2"x3/4"	Kohli, NVR,PKM, Zento	Each		
3.15.120	-do- 2 1/2 "x1"	Kohli, NVR,PKM, Zento	Each		
3.15.121	-do- 2 1/2"x1 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.122	-do- 2 1/2"x 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.123	-do- 3"x1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.124	-do- 3"x3/4"	Kohli, NVR,PKM, Zento	Each		
3.15.125	-do- 3"x1"	Kohli, NVR,PKM, Zento	Each		
3.15.126	-do- 3"x1 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.127	-do- 3"x2"	Kohli, NVR,PKM, Zento	Each		
	G.I REDUCER TEE				
3.15.128	G.I. unequal Tee 15 x20mm	Kohli, NVR,PKM, Zento	Each		
3.15.129	G.I. unequal Tee 15 x25mm	Kohli, NVR,PKM, Zento	Each		
3.15.130	G.I. unequal Tee 15 x32mm	Kohli, NVR,PKM, Zento	Each		
3.15.131	G.I. unequal Tee 15 x40mm	Kohli, NVR,PKM, Zento	Each		
3.15.132	G.I. unequal Tee 15 x50mm	Kohli, NVR,PKM, Zento	Each		
3.15.133	G.I. unequal Tee 15 x80mm	Kohli, NVR,PKM, Zento	Each		
3.15.134	G.I. unequal Tee 20 x25mm	Kohli, NVR,PKM, Zento	Each		
3.15.135	G.I. unequal Tee 20 x32mm	Kohli, NVR,PKM, Zento	Each		
3.15.136	G.I. unequal Tee 20 x40mm	Kohli, NVR,PKM, Zento	Each		

3.15.137	G.I. unequal Tee 20 x50mm	Kohli, NVR,PKM, Zento	Each		
3.15.138	G.I. unequal Tee 20 x80mm	Kohli, NVR,PKM, Zento	Each		
3.15.139	G.I. unequal Tee 25 x32mm	Kohli, NVR,PKM, Zento	Each		
3.15.140	G.I. unequal Tee 25 x40mm	Kohli, NVR,PKM, Zento	Each		
3.15.141	G.I. unequal Tee 25 x50mm	Kohli, NVR,PKM, Zento	Each		
3.15.142	G.I. unequal Tee 25 x80mm	Kohli, NVR,PKM, Zento	Each		
3.15.143	G.I. unequal Tee 32 x40mm	Kohli, NVR,PKM, Zento	Each		
3.15.144	G.I. unequal Tee 32 x50mm	Kohli, NVR,PKM, Zento	Each		
3.15.145	G.I. unequal Tee 32 x32mm	Kohli, NVR,PKM, Zento	Each		
3.15.146	G.I. unequal Tee 32 x40mm	Kohli, NVR,PKM, Zento	Each		
3.15.147	G.I. unequal Tee 32 x50mm	Kohli, NVR,PKM, Zento	Each		
3.15.148	G.I. unequal Tee 32 x80mm	Kohli, NVR,PKM, Zento	Each		
3.15.149	G.I. unequal Tee 40 x50mm	Kohli, NVR,PKM, Zento	Each		
3.15.150	G.I. unequal Tee 40 x32mm	Kohli, NVR,PKM, Zento	Each		
	G.I REDUCER SOCKET				
3.15.151	G.I. reducer socket 15 x20mm	Kohli, NVR,PKM, Zento	Each		
3.15.152	G.I. reducer socket 15 x25mm	Kohli, NVR,PKM, Zento	Each		
3.15.153	G.I. reducer socket 15 x32mm	Kohli, NVR,PKM, Zento	Each		
3.15.154	G.I. reducer socket 15 x40mm	Kohli, NVR,PKM, Zento	Each		
3.15.155	G.I. reducer socket 15 x50mm	Kohli, NVR,PKM, Zento	Each		
3.15.156	-do- 15 x80mm	Kohli, NVR,PKM, Zento	Each		
3.15.157	-do-20 x25mm	Kohli, NVR,PKM, Zento	Each		
3.15.158	-do-20 x32mm	Kohli, NVR,PKM, Zento	Each		
3.15.159	-do- 20 x40mm	Kohli, NVR,PKM, Zento	Each		
3.15.160	-do- 20 x50mm	Kohli, NVR,PKM, Zento	Each		
3.15.161	-do- 20 x80mm	Kohli, NVR,PKM, Zento	Each		
3.15.162	-do- 25 x32mm	Kohli, NVR,PKM, Zento	Each		
3.15.163	-do- 25 x40mm	Kohli, NVR,PKM, Zento	Each		
3.15.164	-do-25 x50mm	Kohli, NVR,PKM, Zento	Each		
3.15.165	-do-25 x80mm	Kohli, NVR,PKM, Zento	Each		

3.15.166	-do- 32 x40mm	Kohli, NVR,PKM, Zento	Each		
3.15.167	-do- 32 x50mm	Kohli, NVR,PKM, Zento	Each		
3.15.168	-do-32 x80mm	Kohli, NVR,PKM, Zento	Each		
3.15.169	-do-32 x32mm	Kohli, NVR,PKM, Zento	Each		
3.15.170	-do-32 x40mm	Kohli, NVR,PKM, Zento	Each		
3.15.171	-do-32 x50mm	Kohli, NVR,PKM, Zento	Each		
3.15.172	-do-32 x80mm	Kohli, NVR,PKM, Zento	Each		
3.15.173	-do-40 x50mm	Kohli, NVR,PKM, Zento	Each		
3.15.174	-do-40 x80mm	Kohli, NVR,PKM, Zento	Each		
3.15.175	-do-40 x80mm	Kohli, NVR,PKM, Zento	Each		
3.15.176	GI cross Tee 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.177	GI cross over 1/2"	Kohli, NVR,PKM, Zento	Each		
3.15.178	GI cross Tee 3/4"	Kohli, NVR,PKM, Zento	Each		
3.15.179	GI cross over 3/4"	Kohli, NVR,PKM, Zento	Each		
3.16	**KITCHEN SINK**				
3.16.1	Stainless steel kitchen sink with single drain board	Tata, Jindal, Dura, Shakti	Each		
3.16.2	Stainless steel, 450 x 400 x 150 mm, single bowl	Tata, Jindal, Dura, Shakti	Each		
3.16.3	Stainless steel, 580 x 480 x 175 mm, single bowl	Tata, Jindal, Dura, Shakti	Each		
3.16.4	Stainless steel, 940 x 460 x 160 mm, single bowl & drainboard	Tata, Jindal, Dura, Shakti	Each		
3.16.5	Stainless steel, 1080 x 520 x 175 mm, single bowl & drainboard	Tata, Jindal, Dura, Shakti	Each		
3.16.6	Stainless steel, 1150 x 515 x 175 mm, single bowl & drainboard	Tata, Jindal, Dura, Shakti	Each		
3.16.7	Stainless steel kitchen sink with double drain board	Tata, Jindal, Dura, Shakti	Each		
3.16.8	Stainless steel, 1740 x 520 x 200 mm, single bowl & double drain-board	Tata, Jindal, Dura, Shakti	Each		
3.16.9	Stainless steel, 940 x 460 x 160 mm, double bowl	Tata, Jindal, Dura, Shakti	Each		
3.16.10	Stainless steel, 1150 x 520 x 160 mm, single bowl	Tata, Jindal, Dura, Shakti	Each		
3.16.11	Stainless steel, 1740 x 520 x 200 mm, double bowl & single drain-board	Tata, Jindal, Dura, Shakti	Each		
3.16.12	Stainless steel, 1740 x 520 x 200 mm, double bowl & double drain-board	Tata, Jindal, Dura, Shakti	Each		
3.16.13	Stainless steel kitchen sink without drain board 18.5x16x7	Tata, Jindal, Dura, Shakti	Each		
3.16.14	Mosaic kitchen sink 18x23"	Tata, Jindal, Dura, Shakti	Each		

3.17	**HDPE AND FLEXIBLE PIPE**				
3.17.1	Alkathene pipe	Standard Quality	Mtr.		
3.17.2	Rubber hose pipe 1/2" dia	Standard Quality	Mtr.		
3.17.3	- do - 3/4" dia	Standard Quality	Mtr.		
3.17.4	PVC flexible hose pipe 1/2" dia	Standard Quality	Mtr.		
3.17.5	PVC flexible hose pipe 3/4" dia	Standard Quality	Mtr.		
3.17.6	PVC flexible pipe 3/4- 1" dia	Standard Quality	Mtr.		
3.17.7	Bhutan polythene pipe 250mm dia (10kg /cm2)	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.8	Bhutan polythene pipe 225mm dia (10kg /cm2)	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.9	Bhutan polythene pipe 160mm dia (10kg /cm2)	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.10	Bhutan polythene pipe 110mm dia (10kg /cm2)	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.7	Bhutan polythene pipe 250mm dia (6kg /cm2)	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.8	Bhutan polythene pipe 225mm dia (6kg /cm2)	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.9	Bhutan polythene pipe 160mm dia (6kg /cm2)	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.10	Bhutan polythene pipe 110mm dia "	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.18	Bhutan polythene pipe 250mm dia (4kg/cm2)	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.19	Bhutan polythene pipe 225mm dia (4kg/cm2)	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.20	Bhutan polythene pipe 160mm dia	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.21	Bhutan polythene pipe 110mm dia	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.22	- do - 90mm dia	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.23	- do - 63mm dia	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.24	- do - 50mm dia	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.25	- do - 40mm dia	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.26	- do - 32mm dia	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.27	- do - 25mm dia	Druk pipe, Umex,Ori-plast	Mtr.		
3.17.28	- do - 20mm dia	Druk pipe, Umex,Ori-plast	Mtr.		
3.18	**HDPE SOCKET(COLLAR)**				
3.18.1	HDPE collar/socket for 250 mm dia	Druk pipe, Umex,Ori-plast	Each		
3.18.2	HDPE collar/socket for 225 mm dia				
3.18.3	HDPE collar/socket for 160 mm dia	Druk pipe, Umex,Ori-plast	Each		
3.18.4	HDPE collar/socket for 110 mm dia	Druk pipe, Umex,Ori-plast	Each		
3.18.5	HDPE collar/socket for 90 mm dia	Druk pipe, Umex,Ori-plast	Each		
3.18.6	HDPE collar/socket for 65 mm dia	Druk pipe, Umex,Ori-plast	Each		

3.19	**HDPE BEND- 45-90 Degree**				
3.20.1	HDPE collar/socket for 250 mm dia	Druk pipe, Umex,Ori-plast	Each		
3.20.2	HDPE collar/socket for 225 mm dia	Druk pipe, Umex,Ori-plast	Each		
3.20.3	HDPE collar/socket for 160 mm dia	Druk pipe, Umex,Ori-plast	Each		
3.20.4	HDPE collar/socket for 110 mm dia	Druk pipe, Umex,Ori-plast	Each		
3.2	**PVC PIPE AND FITTINGS**				
3.20.1	PVC pipe 4"	Supreme, Prince, Giniflex	Mtr.		
3.20.2	PVC pipe 3"	Supreme, Prince, Giniflex	Mtr.		
3.20.3	PVC pipe2"	Supreme, Prince, Giniflex	Mtr.		
3.20.4	100 mm PVC bend plain	Supreme, Prince, Giniflex	Each		
3.20.5	100 mm PVC door plain	Supreme, Prince, Giniflex	Each		
3.20.6	75 mm PVC door bend	Supreme, Prince, Giniflex	Each		
3.20.7	75 mm PVC plain bend	Supreme, Prince, Giniflex	Each		
3.20.8	50 mm PVC door bend	Supreme, Prince, Giniflex	Each		
3.20.9	50 mm PVC plain bend	Supreme, Prince, Giniflex	Each		
3.20.10	100x100 mm PVC door tee	Supreme, Prince, Giniflex	Each		
3.20.11	100x100 mm PVC tee	Supreme, Prince, Giniflex	Each		
3.20.12	75x75 mm PVC tee	Supreme, Prince, Giniflex	Each		
3.20.13	75x75 mm PVC door tee	Supreme, Prince, Giniflex	Each		
3.20.14	50x50 mm PVC tee	Supreme, Prince, Giniflex	Each		
3.20.15	50x50 mm PVC door tee	Supreme, Prince, Giniflex	Each		
3.20.16	100x100 PVC cross door tee	Supreme, Prince, Giniflex	Each		
3.20.17	75x75 mm PVC cross door tee	Supreme, Prince, Giniflex	Each		
3.20.18	50x50 mm PVC cross door tee	Supreme, Prince, Giniflex	Each		
3.20.19	75x75 PVC Y door tee	Supreme, Prince, Giniflex	Each		
3.20.20	100x100 PVC Y door tee	Supreme, Prince, Giniflex	Each		
3.20.21	50x50 PVC Y door tee	Supreme, Prince, Giniflex	Each		
3.20.22	100 mm PVC cowl	Supreme, Prince, Giniflex	Each		
3.20.23	75 mm PVC cowl	Supreme, Prince, Giniflex	Each		
3.20.24	50 mm PVC cowl	Supreme, Prince, Giniflex	Each		

3.20.25	100 mm PVC socket	Supreme, Prince, Giniflex	Each		
3.20.26	75 mm PVC socket	Supreme, Prince, Giniflex	Each		
3.20.27	PVC reducer socket 100x75 mm	Supreme, Prince, Giniflex	Each		
3.20.28	PVC reducer socket 75x750 mm	Supreme, Prince, Giniflex	Each		
3.20.29	PVC bend 100 mm 45 deg	Supreme, Prince, Giniflex	Each		
3.20.30	PVC bend 75 mm 45 deg	Supreme, Prince, Giniflex	Each		
3.20.31	PVC solvent cement	Supreme, Prince, Giniflex	Each		
3.20.32	PVC Inspection chamber(HD) with cover	Supreme, Prince, Giniflex	set		
3.20.33	Extension for above inspection chamber(HD)	Supreme, Prince, Giniflex	set		
3.20.34	PVC Nahani trap 50 mm	Supreme, Prince, Giniflex	Each		
3.20.35	PVC Trap 50x75 mm	Supreme, Prince, Giniflex	Each		
3.20.36	PVC Trap 75x100 mm	Supreme, Prince, Giniflex	Each		
3.20.37	PVC Trap 50x100 mm	Supreme, Prince, Giniflex	Each		
3.3.26	PVC S or P trap	Standard Quality	Each		
3.3.27	PVC multi trap	Standard Quality	Each		
3.21	**TILES**				
	White glazed tiles				
3.21.1	White glazed tiles 8"x4"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.2	6"x4"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.3	6"x6"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.4	8"x4"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.5	8"x6"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.6	8"x8"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.7	8"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.8	8"x16"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.9	10"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.10	12"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.11	12"x18"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.12	24"x24"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.13	24"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.14	18"x24"	Somany,NITCO, Bengal Tiles	Cartn.		

	Digital Ceramic tiles (Floor & Wall)				
3.21.15	Digital Ceramic tiles - 24"x24"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.16	Digital Ceramic tiles - 24"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.17	Digital Ceramic tiles - 18"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.18	Digital Ceramic tiles - 12"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
	Textured tiles				
3.21.19	Textured tiles - 18"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.20	Textured tiles - 12"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.21	Textured tiles - 12"x24"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.22	Textured tiles - 24"x24"	Somany,NITCO, Bengal Tiles	Cartn.		
	Coloured glazed tiles				
3.21.23	Coloured glazed tiles 6"x4"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.24	6"x6"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.25	8"x4"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.26	8"x6"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.27	8"x8"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.28	8"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.29	12"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.30	24"x24"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.31	12"x18"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.32	12"x 24"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.33	18" x 24"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.34	10"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
	Concrete tiles				
3.21.35	Concrete tiles 8"x4"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.36	8"x8"	Somany,NITCO, Bengal Tiles	Carton .		
3.21.37	12"x12"	Somany,NITCO, Bengal Tiles	Carton .		
3.21.38	24"x24"	Somany,NITCO, Bengal Tiles	Carton .		
	Mosaic tiles				
3.21.39	Mosaic tiles 8"x4"	Somany,NITCO, Bengal Tiles	Carton .		
3.21.40	8"x8"	Somany,NITCO, Bengal Tiles	Carton .		

3.21.41	12"x12"	Somany,NITCO, Bengal Tiles	Carton .		
3.21.42	24"x24"	Somany,NITCO, Bengal Tiles	Carton .		
	Brick tiles				
3.21.43	Brick tiles 8"x4"	Somany,NITCO, Bengal Tiles	Carton .		
3.21.44	8"x8"	Somany,NITCO, Bengal Tiles	Carton .		
3.21.45	12"x12"	Somany,NITCO, Bengal Tiles	Carton .		
3.21.46	24"x24"	Somany,NITCO, Bengal Tiles	Carton .		
	Granite Slab				
3.21.47	Granite 15 mm thick	Standard Quality	sft		
3.21.48	Granite 16 mm thick	Standard Quality	sft		
3.21.49	Granite 18 mm thick	Standard Quality	sft		
3.21.50	Granite 20 mm thick	Standard Quality	sft		
3.21.51	Marble 20 mm thick (all colour)	Standard Quality	sft		
3.21.52	Marble 18 mm thick (all colour)	Standard Quality	sft		
3.21.53	Marble 20 mm thick white	Standard Quality	sft		
3.21.54	Marble 18 mm thick white	Standard Quality	sft		
	Anti skid tiles				
3.21.55	4'x1'	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.56	4'x2'	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.57	6"x4"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.58	6"x6"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.59	8"x4"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.60	8"x6"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.61	8"x8"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.62	8"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.63	12"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.64	24"x24"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.65	12"x18"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.66	12"x 24"	Somany,NITCO, Bengal Tiles	Cartn.		
3.21.67	10"x12"	Somany,NITCO, Bengal Tiles	Cartn.		
3.22	**FLOATING VALVE OR BALL COCK (brass)**				
3.22.1	Brass ball cock 15mm	Kohli, G,PIC,Essco	each		
3.22.2	Brass ball cock 20 mm	Kohli, G,PIC,Essco	each		

3.22.3	Brass ball cock 25mm	Kohli, G,PIC,Essco	each		
3.22.4	Brass ball cock 32mm	Kohli, G,PIC,Essco	each		
3.22.5	Brass ball cock 40mm	Kohli, G,PIC,Essco	each		
3.22.6	Brass ball cock 50 mm	Kohli, G,PIC,Essco	each		
	Non Return Valve(Brass)				
3.22.7	15mm	Kohli, G,PIC,Essco	each		
3.22.8	20mm	Kohli, G,PIC,Essco	each		
3.22.9	25mm	Kohli, G,PIC,Essco	each		
3.22.10	32mm	Kohli, G,PIC,Essco	each		
3.22.11	40mm	Kohli, G,PIC,Essco	each		
3.22.12	50 mm	Kohli, G,PIC,Essco	each		
3.23	**TANK NIPPLE**				
3.23.1	G.I tank nipple 15mm dia	Kohli, NVR, PKM, Zento	each		
3.23.2	G.I. Tank nipple 20mm dia	Kohli, NVR, PKM, Zento	each		
3.23.3	G.I. Tank nipple 25mm dia	Kohli, NVR, PKM, Zento	each		
3.23.4	G.I. Tank nipple 32mm dia	Kohli, NVR, PKM, Zento	each		
3.23.5	G.I. Tank nipple 40mm dia	Kohli, NVR, PKM, Zento	each		
3.23.6	G.I. Tank nipple 65mm dia	Kohli, NVR, PKM, Zento	each		
3.23.7	G.I. Tank nipple 80mm dia	Kohli, NVR, PKM, Zento	each		
3.23.8	G.I. Tank nipple 110mm dia	Kohli, NVR, PKM, Zento	each		
3.24	**FLANGE SETS**				
3.24.1	CP flange 15mm	Standard Quality	Set		
3.24.2	CP flange 20mm	Standard Quality	Set		
3.24.3	CP flange 25mm	Standard Quality	Set		
3.24.4	CP flange 32mm	Standard Quality	Set		
3.24.5	GI flange 40mm	Standard Quality	Set		
3.24.6	GI flange 50mm	Standard Quality	Set		
3.24.7	GI flange 63mm	Standard Quality	Set		
3.24.8	GI flange 80mm	Standard Quality	Set		
3.24.9	GI flange 100mm	Standard Quality	Set		
3.25	**MS Pipe**				
3.25.1	M.S. pipe 11/2"	Bansal,Utkars	Kg.		
3.25.2	M.S pipe 2"	Bansal,Utkars	Kg.		
3.25.3	M.S pipe 21/2"	Bansal,Utkars	Kg.		
3.25.4	M.S pipe 3"	Bansal,Utkars	Kg.		
3.25.5	M.S pipe 4"	Bansal,Utkars	Kg.		
3.26	**Water meter valve**				
3.26.1	Water meter valve 15mm	BSB approved brand	Each		
3.26.2	Water meter valve 20mm	BSB approved brand	Each		

3.26.3	Water meter valve 25mm	BSB approved brand	Each		
3.26.4	Water meter valve 50mm	BSB approved brand	Each		
3.26.5	Water meter valve 75mm	BSB approved brand	Each		
3.26.6	Water meter valve 100mm	BSB approved brand	Each		
3.27	**CPVC Pipes and Fittings**				
	CPVC Pipes				
3.27.1	CPVC pipes(SDR-11) 15mm(1/2")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.2	CPVC pipes(SDR-11) 20mm(3/4")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.3	CPVC pipes(SDR-11) 25mm(1")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.4	CPVC pipes(SDR-11) 32mm(1 1/4")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.5	CPVC pipes(SDR-11) 40mm(1 1/2")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.6	CPVC pipes(SDR-11) 50mm(2")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.7	CPVC pipes(SDR-13.5) 15mm(1/2")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.8	CPVC pipes(SDR-13.5) 20mm(3/4")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.9	CPVC pipes(SDR-13.5) 25mm(1")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.10	CPVC pipes(SDR-13.5) 32mm(1 1/4")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.11	CPVC pipes(SDR-13.5) 40mm(1 1/2")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.12	CPVC pipes(SDR-13.5) 50mm(2")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.13	CPVC pipes(IPS SCH 40) 65mm(2 1/2")	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.14	CPVC pipes(IPS SCH 40) 80mm	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.15	CPVC pipes(IPS SCH 40) 100mm	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.16	CPVC pipes(IPS SCH 40) 150mm	Fusion, Truflo, Prince, BirlaAerocon	Rft.		

3.27.17	CPVC pipes(IPS SCH 80) 65mm	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.18	CPVC pipes(IPS SCH 80) 80mm	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.19	CPVC pipes(IPS SCH 80)100mm	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.20	CPVC pipes(IPS SCH 80) 150mm	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.21	CPVC pipes(IPS SCH 80) 200mm	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.22	CPVC pipes(IPS SCH 80) 250mm	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
3.27.23	CPVC pipes(IPS SCH 80) 300mm	Fusion, Truflo, Prince, BirlaAerocon	Rft.		
	CPVC Reducer bushing				
3.27.24	CPVC Reducer bushing 20x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.25	CPVC Reducer bushing 25x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.26	CPVC Reducer bushing 25x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.27	CPVC Reducer bushing 32x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.28	CPVC Reducer bushing 32x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.29	CPVC Reducer bushing 32x25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.30	CPVC Reducer bushing 40x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.31	CPVC Reducer bushing 40x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.32	CPVC Reducer bushing 40x25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.33	CPVC Reducer bushing 40x32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.34	CPVC Reducer bushing 50x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.35	CPVC Reducer bushing 50x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.36	CPVC Reducer bushing 50x25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.37	CPVC Reducer bushing 50x32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.38	CPVC Reducer bushing 50x40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.39	CPVC Reducer bushing 65x32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.40	CPVC Reducer bushing 65x40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.41	CPVC Reducer bushing 65x50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.42	CPVC Reducer bushing 80x40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.43	CPVC Reducer bushing 80x50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.44	CPVC Reducer bushing 80x65mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.45	CPVC Reducer bushing 100x50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.46	CPVC Reducer bushing 100x65mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.47	CPVC Reducer bushing 100x80mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.48	CPVC Transition bushing 25x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.49	CPVC Transition bushing 20x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.50	CPVC Transition bushing 25x25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.51	CPVC Transition bushing 32x32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.52	CPVC Transition bushing 40x40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.53	CPVC Transition bushing 50x50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC Coupling	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.54	CPVC Coupling 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.55	CPVC Coupling 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.56	CPVC Coupling 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.57	CPVC Coupling 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.58	CPVC Coupling 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.59	CPVC Coupling 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.60	CPVC Coupling 65mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.61	CPVC Coupling 80mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.62	CPVC Coupling 100mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC Reducer coupling				
3.27.63	CPVC Reducer coupling 20x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.64	CPVC Reducer coupling 25x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.65	CPVC Reducer coupling 25x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.66	CPVC Reducer coupling 32x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.67	CPVC Reducer coupling 32x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.68	CPVC Reducer coupling 32x25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.69	CPVC Reducer coupling 40x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.70	CPVC Reducer coupling 40x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.71	CPVC Reducer coupling 40x25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.72	CPVC Reducer coupling 40x32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.73	CPVC Reducer coupling 50x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.74	CPVC Reducer coupling 50x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.75	CPVC Reducer coupling 50x25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.76	CPVC Reducer coupling 50x32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.77	CPVC Reducer coupling 50x40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC Tee				
3.27.78	CPVC tee 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.79	CPVC tee 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.80	CPVC tee 25m	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.81	CPVC tee 32 mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.82	CPVC tee 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.83	CPVC tee 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.84	CPVC tee 65mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.85	CPVC tee 80mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.86	CPVC tee 100mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC Reducer Tee				
3.27.87	CPVC reducer tee 15x15x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.88	CPVC reducer tee 20x20x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.89	CPVC reducer tee 20x15x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.90	CPVC reducer tee 20x15x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.91	CPVC reducer tee 25x25x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.92	CPVC reducer tee 25x25x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.93	CPVC reducer tee 32x32x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.94	CPVC reducer tee 32x32x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.95	CPVC reducer tee 32x32x25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.96	CPVC reducer tee 40x40x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.97	CPVC reducer tee 40x40x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.98	CPVC reducer tee 40x40x25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.99	CPVC reducer tee 40x40x32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.100	CPVC reducer tee 50x50x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.101	CPVC reducer tee 50x50x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.102	CPVC reducer tee 50x50x25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.103	CPVC reducer tee 50x50x32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.104	CPVC reducer tee 50x50x40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC Elbow 90 deg				
3.27.105	CPVC elbow 90 deg 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.106	CPVC elbow 90 deg 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.107	CPVC elbow 90 deg 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.108	CPVC elbow 90 deg 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.109	CPVC elbow 90 deg 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.110	CPVC elbow 90 deg 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.111	CPVC elbow 90 deg 65mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.112	CPVC elbow 90 deg 80mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.113	CPVC elbow 90 deg 100mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.114	CPVC SSR elbow 90 deg 15X15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.115	CPVC SSR elbow 90 deg 20X15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.116	CPVC elbow 90 deg 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.117	CPVC reducer elbow 20x15	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.118	CPVC reducer elbow 20x32	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.119	CPVC reducer elbow 25x20	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.120	CPVC reducer elbow 25x15	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.121	CPVC reducer elbow 25x32	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.122	CPVC reducer elbow 32x40	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.123	CPVC reducer elbow 40x50	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC elbow 45 deg				
3.27.124	CPVC elbow 45 deg 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.125	CPVC elbow 45 deg 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.126	CPVC elbow 45 deg 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.127	CPVC elbow 45 deg 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.128	CPVC elbow 45 deg 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.129	CPVC elbow 45 deg 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC threads male/female adapter				
3.27.130	CPVC threads male adapter 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.131	CPVC threads male adapter 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.132	CPVC threads male adapter 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.133	CPVC threads male adapter 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.134	CPVC threads male adapter 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.135	CPVC threads male adapter 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.136	CPVC threads female adapter 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.137	CPVC threads female adapter 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.138	CPVC threads female adapter 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.139	CPVC threads female adapter 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.140	CPVC threads female adapter 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.141	CPVC threads female adapter 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC tank adapter				
3.27.142	CPVC tank adapter 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.143	CPVC tank adapter 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.144	CPVC tank adapter 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.145	CPVC tank adapter 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.146	CPVC tank adapter 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.147	CPVC tank adapter 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC Union				
3.27.148	CPVC union 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.149	CPVC union 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.150	CPVC union 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.151	CPVC union 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.152	CPVC union 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC brass male/female (union type)				
3.27.151	CPVC brass male (union type) 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.152	CPVC brass female (union type) 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.153	CPVC union 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.154	CPVC cross 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.155	CPVC cross 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC Endcap				
3.27.156	CPVC endcap 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.157	CPVC endcap 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.158	CPVC endcap 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.159	CPVC endcap 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.160	CPVC endcap 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.161	CPVC endcap 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.162	CPVC endcap 65mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.163	CPVC endcap 80mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.164	CPVC endcap 100mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.165	CPVC endcap 150mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC (brass)FPT Coupling				
3.27.166	CPVC (brass)FPT coupling 20x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.167	CPVC (brass) FPT coupling 25x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC (brass) FPT Tee,Elbow				
3.27.168	CPVC (brass) FPT Tee 15x15x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.169	CPVC (brass) FPT Tee 20x20x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.170	CPVC (brass) FPT Tee 20x20x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.171	CPVC (brass) FPT Tee 25x25x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.172	CPVC (brass) FPT Tee 25x25x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.173	CPVC (brass) FPT Tee 32x32x32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.174	CPVC (brass) FPT Tee 32x32x40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.175	CPVC (brass) FPT Tee 32x32x50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.176	CPVC (brass) FPT Tee 32x32x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.177	CPVC (brass) FPT Tee 32x32x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.178	CPVC (brass) FPT Tee 40x40x50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.179	CPVC (brass) FPT Tee 40x40x40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.180	CPVC (brass) FPT Tee 40x40x32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.181	CPVC (brass) FPT Tee 40x40x25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.182	CPVC (brass) FPT Tee 40x40x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.183	CPVC (brass) FPT Tee 40x40x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.184	CPVC (brass) FPT Tee 50x50x50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.185	CPVC (brass) FPT Tee 50x50x40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.186	CPVC (brass) FPT Tee 50x50x32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.187	CPVC (brass) FPT Tee 50x50x25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.188	CPVC (brass) FPT Tee 50x50x20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.189	CPVC (brass) FPT Tee 50x50x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.190	CPVC(brass) FPT elbow 15x15	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.191	CPVC(brass) FPT elbow 20x15	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.192	CPVC (brass) FPT elbow 25x20	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.193	CPVC (brass) FPT elbow 25x15	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.194	CPVC (brass)FPT elbow25x40	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.195	CPVC(brass) FPT elbow 32x50	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC male/female adapter(brass threads)				
3.27.196	CPVC male adapter(brass threads) 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.197	CPVC male adapter(brass threads) 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.198	CPVC male adapter(brass threads) 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.199	CPVC male adapter(brass threads) 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.200	CPVC male adapter(brass threads) 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.201	CPVC male adapter(brass threads) 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.202	CPVC male adapter(brass thread SCH-80) 65mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.203	CPVC male adapter(brass thread SCH-80) 80mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.204	CPVC male adapter(brass thread SCH-80) 100mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.205	CPVC male adapter(brass thread SCH-80) 150mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.206	CPVC male adapter(brass threads) 20x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.207	CPVC female adapter(brass threads) 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.208	CPVC female adapter(brass threads) 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.209	CPVC female adapter(brass threads) 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.210	CPVC female adapter(brass threads) 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.211	CPVC female adapter(brass threads) 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.212	CPVC female adapter(brass threads) 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.213	CPVC female adapter(brass thread SCH-80) 65mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.214	CPVC female adapter(brass thread SCH-80) 80mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.215	CPVC female adapter(brass thread SCH-80) 100mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.216	CPVC female adapter(brass thread SCH-80) 150mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC Step Over Bend				
3.27.217	CPVC step over bend 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.218	CPVC step over bend 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.219	CPVC step over bend 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.220	**CPVC concealed valve**	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.221	CPVC Concealed valve15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.222	CPVC Concealed valve20MM	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.223	CPVC Wheel type concealed valve 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.224	cpvc wheel type concealed valve 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.225	cpvc splinder type concealed valve 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.226	CPVC splinder type concealed valve 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC ball valve				
3.27.227	CPVC ball valve 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.228	CPVC ball valve 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.229	CPVC ball valve 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.230	CPVC ball valve 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.231	CPVC ball valve 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.232	CPVC ball valve 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC Spearsball valve				
3.27.233	CPVC Spearsball valve 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.234	CPVC Spearsball valve 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.235	CPVC Spearsball valve 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.236	CPVC Spearsball valve 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.237	CPVC Spearsball valve 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.238	CPVC Spearsball valve 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC long radius 90deg bend				
3.27.239	CPVC long radius 90deg bend 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.240	CPVC long radius 90deg bend 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.241	CPVC long radius 90deg bend 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.242	CPVC long radius 90deg bend 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.243	CPVC long radius 90deg bend 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC plastic straps				
3.27.244	CPVC plastic straps 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.245	CPVC plastic straps 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.246	CPVC plastic straps 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.247	CPVC plastic straps 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.248	CPVC plastic straps 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.249	CPVC plastic straps 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC Tee /Top holder				
3.27.250	CPVC Tee holder 15x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.251	CPVC Tee holder 20x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.252	CPVC Top holder 15x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.253	CPVC Top holder 20x15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.254	CPVC end plug threaded 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC pipe puncture kit				
3.27.255	CPVC pipe puncture kit 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.256	CPVC pipe puncture kit 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC Cap				
3.27.257	CPVC cap 15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.258	CPVC cap 20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.259	CPVC cap 25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.260	CPVC cap 32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.261	CPVC cap 40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.262	CPVC cap 50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.263	CPVC cap 65mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.264	CPVC cap 80mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.265	CPVC cap 100mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.266	CPVC cap 150mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
	CPVC Saddle				
3.27.267	15mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.268	20mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.269	25mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.270	32mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.27.271	40mm	Fusion, Truflo, Prince, BirlaAerocon	Each		

3.27.272	50mm	Fusion, Truflo, Prince, BirlaAerocon	Each		
3.28	**IPS Weld on flowguard gold adhesive solution yellow type**				
3.28.1	IPS Weld on flowguard gold adhesive solution yellow type 22ml	BSB approved brand	Each		
3.28.2	IPS Weld on flowguard gold adhesive solution yellow type 44ml	BSB approved brand	Each		
3.28.3	IPS Weld on flowguard gold adhesive solution yellow type 50ml	BSB approved brand	Each		
3.28.4	IPS Weld on flowguard gold adhesive solution yellow type 118ml	BSB approved brand	Each		
3.28.5	IPS Weld on flowguard gold adhesive solution yellow type 237ml	BSB approved brand	Each		
3.28.6	IPS Weld on flowguard gold adhesive solution yellow type 473ml	BSB approved brand	Each		
3.28.7	IPS Weld on flowguard gold adhesive solution yellow type 946ml	BSB approved brand	Each		
3.29	**MISCELLEANOUS**				
3.29.1	18" dia C.I. man hole cover 38 kg and above (frame & cover)	Standard Quality	Set		
3.29.2	300x 300mm C.I. man hole cover with frame	Standard Quality	Set		
3.29.3	450x 450mm C.I. man hole cover with frame	Standard Quality	Set		
3.29.4	600x 600mm C.I. man hole cover with frame	Standard Quality	Set		
3.29.5	900x 900mm C.I. man hole cover with frame	Standard Quality	Set		
3.29.6	1200x 1200mm C.I. man hole cover with frame	Standard Quality	Set		
3.29.7	18" dia C.I. man hole cover 38 kg and above (frame & cover)	Standard Quality	Set		
3.29.8	24" dia C.I. man hole cover 38 kg and above (frame & cover)	Standard Quality	Set		
3.29.9	G.I chamber cover with lockable arragement & hinges (300 x300)mm	Standard Quality	No.		
3.29.10	G.I chamber cover with lockable arragement & hinges (600x600)mm	Standard Quality	No.		
3.29.11	G.I chamber cover with lockable arragement & hinges (900x900)mm				
3.29.12	G.I chamber cover with lockable arragement & hinges (1200x1200)mm				
3.29.13	G.I. plug 1/2"	Kohli,NVR,PKM, Zento	Each		
3.29.14	- do - 3/4"	Kohli,NVR,PKM, Zento	Each		
3.29.15	- do - 1"	Kohli,NVR,PKM, Zento	Each		
3.29.16	- do - 1 1/2"	Kohli,NVR,PKM, Zento	Each		
3.29.17	- do - 2"	Kohli,NVR,PKM, Zento	Each		
3.29.18	G.I. cape 1/2"	Kohli,NVR,PKM, Zento	Each		
3.29.19	- do - 3/4"	Kohli,NVR,PKM, Zento	Each		

3.29.20	- do - 1"	Kohli,NVR,PKM, Zento	Each		
3.29.21	- do - 1 1/2"	Kohli,NVR,PKM, Zento	Each		
3.29.22	- do - 2"	Kohli,NVR,PKM, Zento	Each		
3.29.23	M. Seal	Standard Quality	Pkt		
3.29.24	White cement	Standard Quality	Kg		
3.29.25	White zinc	Standard Quality	Tin		
3.29.26	Safety valve for Gyeser	Heavy duty	Each		
3.29.27	32 mm CP chain plug	yser	Set		
3.29.28	40mm CP chain plug	Standard Quality	Set		
3.29.29	Rubber gas ket 4 mm	Standard Quality	Kg		
3.29.30	Fiber gas ket 4mm	Standard Quality	Kg		
3.29.31	Hemp for connection of pipe lines	Standard Quality	Kg		
3.29.32	W/H pressure valve for Geyser	Standard Quality	Each		
3.29.33	W/H safety valve for Geyser	Standard Quality	Each		
3.29.34	M.S. nuts & bolts 6" long, 12 mm dia	Standard Quality	Each		
3.29.35	M.S. nuts & bolts 4" long, 12 mm dia	Standard Quality	Each		
3.29.36	CP extension nipple 1/2" x 1"	Standard Quality	Each		
3.29.37	CP extension nipple 1/2" x1 1/2"	Standard Quality	Each		
3.29.38	CP extension nipple 1/2"x2"	Standard Quality	Each		
3.29.39	CP extension nipple 1/2" x3"	Standard Quality	Each		
3.29.40	CP extension nipple 1/2" x4"	Standard Quality	Each		
3.29.41	CP hex nipple 1/2"	Standard Quality	Each		
3.29.42	Bib cock washer	Standard Quality	Each		
3.29.43	CP connection nut and washer	Standard Quality	Set		
3.29.44	Glass wool for Geyser	Standard Quality	kg		
3.29.45	Hasain cloth for wrapping of pipe	Standard Quality	Mtr.		
3.29.46	Thread seal tape 1/2"	Standard Quality	Each		
3.29.47	Thread seal tape 3/4"	Standard Quality	Each		
3.29.48	heating Plate 225 mm	Standard Quality	Each		

Annexure-IV
LIST OF MATERIALS FOR TOOLS AND PLANTS FOR THE YEAR 2023

The brand quoted for Equivalent should be mentioned in Remarks. If not mentioned, the brand will be assumed as the one specified by the purchaser.

Sl.No.	DESCRIPTION / SPECIFICATION OF ITEM	BRAND	UNIT	RATE	Remarks
4.1.1	**Tools and Machines**				
4.1.1.1	Screw driver, C.A transparant handle, blade length 50mm, blade dia. 3mm, tip dimension (1.6x0.4)mm, conforming to IS 844-1979, insulation type 10% extra	Taparia make equivalent.	Each		
4.1.1.2	Screw driver, C.A transparant handle, blade length 100mm, blade dia. 3mm, tip dimension (2.3x0.4)mm, conforming to IS 844-1979, insulation type 10% extra	Taparia make equivalent.	Each		
4.1.1.3	Screw driver, C.A transparant handle, blade length 100mm, blade dia. 6mm, tip dimension (6x6)mm, conforming to IS 844-1979, insulation type 10% extra	Taparia make equivalent.	Each		
4.1.1.4	Screw driver, C.A transparant handle, blade length 200mm, blade dia. 8mm, tip dimension (8x1.2)mm, conforming to IS 844-1979, insulation type 10% extra	Taparia make equivalent.	Each		
4.1.1.5	Screw driver C.A transparant handle, blade length 200mm, blade dia. 10mm, tip dimension (10x1.2)mm, conforming to IS 844-1979, insulation type 10% extra	Taparia make equivalent.	Each		
4.1.1.6	Screw driver (Phillips), C.A transparant handle, Phillips tip No. 1, conforming to IS 844-1979, insulation type 10% extra	Taparia make equivalent.	Each		
4.1.1.7	Screw driver (Phillips), C.A transparant handle, Phillips tip No. 2, conforming to IS 844-1979, insulation type 10% extra	Taparia make equivalent.	Each		
4.1.1.8	Screw driver (Phillips), C.A transparant handle, Phillips tip No. 4, conforming to IS 844-1979, insulation type 10% extra	Taparia make equivalent.	Each		
4.1.1.9	Screw driver (Poker), C.A transparant handle, blade length 95mm, blade dia. 6mm, tip dimension (0x0)mm, conforming to IS 844-1979, insulation type 10% extra	Taparia make equivalent.	Each		
4.1.1.10	Screw driver (Line/Neon tester), Screw driver with neon bulb conforming to IS 5579-1985, grade-II, handle-yellow, overall length 130mm	Taparia make equivalent.	Each		
4.1.1.11	Three in one tester, Overall length-1200mm with extension cord, handle-yellow, product No. 817 & 1413	Taparia make equivalent.	Set		
4.1.1.12	Screw driver set, 3.5x0.5, 4.3x0.6, 6x0.8, Philips No. 1, Philips No. 2, Poker round, Poker square, wooden screw type, Number of blades 8, product No. 831	Taparia make equivalent.	Set		
4.1.1.13	Double ended Spanner Set (Ribbed), Double ended Spanner Set (Ribbed), Product No.	Taparia make equivalent.	Set		

	1608, Taparia Make, contents 6x7, 9x8, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22				
4.1.1.14	Double ended Ring Spinner Set, Double ended Ring Spanner Set (Ribbed), Product No. 1808, Taparia Make, contents 6x7, 9x8, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22	Taparia make equivalent.	Set		
4.1.1.15	Adjustable Spanner with soft grip, Chrome Plated, Adjustable Spanner with soft grip, Chrome Plated, Length 205mm, Least Maximum Openning 26mm, Product No. 1171-S-8	Taparia make equivalent.	Each		
4.1.1.16					
4.1.1.17	Combination plier, 165mm long, Insulated with thick C.A sleeve, with joint cutters, 165 mm length, conforming to IS 3650-1981	Taparia make equivalent.	Each		
4.1.1.18	Combination plier, 185mm long, Insulated with thick C.A sleeve, with joint cutters, 185 mm length, conforming to IS 3650-1982	Taparia make equivalent.	Each		
4.1.1.19	Long nose plier, 165mm long (Flat nose), Insulated with thick C.A sleeve, with joint cutters, 165 mm length, conforming to IS 3552-1989	Taparia make equivalent.	Each		
4.1.1.20	Long nose plier, 170mm long (long Nose), Insulated with thick C.A sleeve, with joint cutters, 170 mm length, conforming to IS 3552-1989,	Taparia make equivalent.	Each		
4.1.1.21	Side cutting plier, 165mm long, Insulated with thick C.A sleeve, with cable stripper, 165 mm length, conforming to IS 4378-1990	Taparia make equivalent.	Each		
4.1.1.22	Electric hammer, product No. SQ 15	Taparia make equivalent.	Each		
4.1.1.23	Metallic Ballpin hammer- 450gms, wooden handle: 250mm length, 30mm dia	Taparia make equivalent.	Each		
4.1.1.24	Craw hammer, Metallic Craw hammer - 340gms, wooden handle: 250mm length, 30mm dia.	Taparia make equivalent.	Each		
4.1.1.25	Craw hammer, Metallic Craw hammer - 450gms, wooden handle: 250mm length, 30mm dia.	Taparia make equivalent.	Each		
4.1.1.26	Chesel - Metallic flate chesel with rubber grip, 235mm length, 25mm hole size, Product No. 1059 R.	Taparia make equivalent.	Each		
4.1.1.27	Chese-l - Metallic flate chesel with rubber grip, 250mm length, 30mm hole size, Product No. 106 R	Taparia make equivalent.	Each		
4.1.1.28	Cold Chesel - Metallic octagonal chesel as per IS 402/1990 with 150mm length, cotting edge 16mm, Product No. 102	Taparia make equivalent.	Each		
4.1.1.29	Cold Chesel - Metallic Flate chesel as per IS 402/1990 with 200mm length, cotting edge 25mm, Product No. 1048	Taparia make equivalent.	Each		
4.1.1.30	Alluminium ladder, stand type, 1.5m height with standing plate at top, 100kg capacity minimum with all required accessories	Standard Quality	Each		
4.1.1.31	Alluminium ladder, sliding type, 2 x 12 feet height with hook at one end, 100kg capacity minimum with all required accessories	Standard Quality	Each		
4.1.1.32	Alluminium ladder, sliding type, 24 feet height with hook at one end, 100kg capacity minimum with all required accessories	Standard Quality	Each		

4.1.1.33	Alluminium ladder, sliding type, 36 feet height with hook at one end, 100kg capacity minimum with all required accessories	Standard Quality	Each		
4.1.1.34	Alluminium ladder, sliding type, 6 feet height with flat on top with stand , 100kg capacity minimum with all required accessories	Standard Quality	Each		
4.1.1.35	Crimping tool, manual operating type, suitable for sizes from 25 sq.mm to 400 sq.mm with all required dies and accessories as complete	Standard Quality	Set		
4.1.1.36	Cable jointing kit suitable for 10sq.mm to 400sq.mm with all accessories as required	Standard Quality	Set		
4.1.1.37	Smart Kit - GSB 13 RE KIT (Tool Box type including - drilling machine,hammer, pliers, cutters, ranges, drill bits, tester, etc. - Bosch made)	Bosch make or equivalent.	Set		
4.1.1.38	Electric Drilling machine, Rotatry hammer, GBH 2-28 DV, heavy duty, power input 850W, speed 1300 rpm, weight 2.9kg including changingover chucks.	Bosch make or equivalent.	Each		
4.1.1.39	Drilling Machine - with Battery Chargeable	Bosch/Equivalent	Each		
4.1.1.40	Wire Stripper with insulated handle	Standard Quality	Each		
4.1.1.41	Fish Tape - 100 Ft - Nylon	Standard Quality	Each		
4.1.1.42	Fish Tape - 100 Ft - Fiberglass	Standard Quality	Each		
4.1.1.43	Waist Tool Bag/Waist Bag Belts/Hanging Tool Bag	Best Foreign quality	Each		
4.1.1.44	Side pocket tools bag (leather)	Taparia make or equivalent.	Each		
4.1.1.45	Soldering iron RT6000 series	Royal make or equivalent.	Each		
4.1.1.46	Sucker Tin Pump (for sucking lead)	Royal make or equivalent.	Each		
4.1.1.47	Soldering iron stand	Royal make or equivalent.	Each		
4.1.1.48	Concrete drill bit 2mm dia	Taparia make or equivalent.	Each		
4.1.1.49	Concrete drill bit 4mm dia	Taparia make or equivalent.	Each		
4.1.1.50	Concrete drill bit 6mm dia	Taparia make or equivalent.	Each		
4.1.1.51	Concrete drill bit 8mm dia	Taparia make or equivalent.	Each		
4.1.1.52	Concrete drill bit 10mm dia	Taparia make or equivalent.	Each		
4.1.1.53	Concrete drill bit 12mm dia	Taparia make or equivalent.	Each		
4.1.1.54	Wooden drill bit 2mm dia.	Taparia make or equivalent.	Each		
4.1.1.55	Wooden drill bit 4mm dia.	Taparia make or equivalent.	Each		
4.1.1.56	Wooden drill bit 6mm dia.	Taparia make or equivalent.	Each		
4.1.1.57	Wooden drill bit 8mm dia.	Taparia make or equivalent.	Each		
4.1.1.58	Wooden drill bit 10mm dia.	Taparia make or equivalent.	Each		
4.1.1.59	Wooden drill bit 12mm dia.	Taparia make or equivalent.	Each		
4.1.2	**Measuring Instruments**				

4.1.2.1	Measuring tape 5 m (steel) with spirit level	Taparia make or equivalent.	Each		
4.1.2.2	Measuring tape 15 m (Fibre)	Taparia make or equivalent.	Each		
4.1.2.3	Measuring tape 30 m (Fibre)	Taparia make or equivalent.	Each		
4.1.2.4	Measuring tape 50 m (Fibre)	Taparia make or equivalent.	Each		
4.1.2.5	Megger, Analog Type	Metravi Brand Taiwan Make/Standard Quality	Each		
4.1.2.6	Digital Megger, DIT-912	Metravi Brand Taiwan Make/Standard Quality	Each		
4.1.2.7	Digital Insulation Tester(DIT912) Large LCD with dula display , Measuring Range 200Ω,200KΩ,200MΩ/205V,200MΩ/500V,200 MΩ/1000V,750V/ACV,1000V/DCV. Sampling Rate 2.5 times per second.Zero Adjustment , Automatic Adjustment. Operating Temperature and Humidity - 0 Degree Celsius to 40 Degree Celsius below 70% RH. Power source DC9V(6x1.5 Size "AA" Battery or Equivalent). Dimensions 200(L) X92(W) x50(H) mm. Weight Approx X700 gram including batterywith accessories of Test leads, 6 pcs battery ,carrying case manual.	Metravi Brand Taiwan Make or equivqlent.	Each		
4.1.2.8	Multi-tester to test continuty, live, etc	Standard Company	Each		
4.1.2.9	AC/DC Digital Multi-meter, range 0-1000VAC, 0-200VAC	Metravi Brand Taiwan Make or equivqlent.	Each		
4.1.2.10	Digital earth resistance tester , Model ERT - 1501/1501R	Metravi Brand Taiwan Make or equivalent.	Each		
4.1.2.11	Digital meter withless USB,interface DT-5250, AC/DC T-RMS clamp meter	Metravi Brand Taiwan Make or equivalent.	Each		
4.1.2.12	AC/DC Digital multi-meter cum Clamp meter, range 0-1000VAC, 0-200VAC, DT-1250	Metravi make / Equivalent brand	Set		
4.1.2.13	Digital Earth Tester	BEHA make/KUSAM MECO/Equivalen t brand	Each		
4.1.2.14	Digital Insulator Tester	KUSAM MECO make/Equivalent brand	Each		
4.1.2.15	Vernier Calliper, Size 12" (25cm), Product No. 320C	Inder company/Equival ent brand	Each		
4.1.2.16	Clamp on meter (Digital clamp on meter, ES1000AC)	Rishabh or Equivalent	Each		
4.1.2.17	Voltge Tester/Line Tester (High voltage detector 33kV to 400kV)	KUSAM MECO make/Equivalent brand	Each		
4.1.2.18	Insulation Resistance Tester (Insulation Resistance meter 50v - 10kV with multi range)	Metravi or Equivalent	Each		

4.2	**Civil**				
4.2.1	**Hardware**				
4.2.1.1	Spade	Tata or Standard Quality	Each		
4.2.1.2	Hoe	Tata or Standard Quality	Each		
4.2.1.3	Fork	Tata or Standard Quality	Each		
4.2.1.4	Shovel	Tata or Standard Quality	Each		
4.2.1.5	Crowbar 1" dia.	Tata or Standard Quality	Each		
4.2.1.6	Crowbar 1 1/4" dia.	Tata or Standard Quality	Each		
4.2.1.7	Crowbar 2" dia.	Tata or Standard Quality	Each		
4.2.1.8	Pick axe	Tata or Standard Quality	Each		
4.2.1.9	Dressing Hammer 1/2 kg-1kg	Tata or Standard Quality	Each		
4.2.1.10	Sledge Hammer 2.5kg with handle	Tata or Standard Quality	Each		
4.2.1.11	Sledge Hammer 3.5 kg with handle	Tata or Standard Quality	Each		
4.2.1.12	Sledge Hammer 4.5 kg with handle	Tata or Standard Quality	Each		
4.2.1.13	Sledge Hammer 5.5kg with handle	Tata or Standard Quality	Each		
4.2.1.14	Mortar pan	Tata or Standard Quality	Each		
4.2.1.15	Plaster finishing Trowel, stainless steel with wooden handle big size	Standard Quality	Each		
4.2.1.16	Plaster finishing Trowel, stainless steel with wooden handle medium size	Standard Quality	Each		
4.2.1.17	Plaster finishing Trowel, stainless steel with wooden handle small sizel	Standard Quality	Each		
4.2.1.18	Pointing Trowel, stainless steel with wooden handle big size	Tata or Standard Quality	Each		
4.2.1.19	Pointing Trowel, stainless steel with wooden handle medium size	Tata or Standard Quality	Each		
4.2.1.20	Pointing Trowel, stainless steel with wooden handle small sizel	Tata or Standard Quality	Each		
4.2.1.21	Hand saw 12" (heavy duty)	Tata or Standard Quality	Each		
4.2.1.22	Hand saw 14" (heavy duty)	Tata or Standard Quality	Each		
4.2.1.23	Hand saw 18" (heavy duty)	Tata or Standard Quality	Each		
4.2.1.24	Hand Planner 8"-9"	Tata or Standard Quality	set		
4.2.1.25	Hand Planner 18"	Tata or Standard Quality	set		
4.2.1.26	Hand Planner 10"-14	Tata or Standard Quality	set		
4.2.1.27	Chesel 1/2"x4" with handle	Tata or Standard Quality	Each		
4.2.1.28	Chesel 1"x4" with handle	Tata or Standard Quality	Each		
4.2.1.29	Chesel 11/2" with handle	Tata or Standard Quality	Each		

4.2.1.30	Chesel 6" with handle	Tata or Standard Quality	Each		
4.2.1.31	Chesel 10" with handle	Tata or Standard Quality	Each		
4.2.1.32	Cold chesel/Chhinu big	Tata or Standard Quality	Each		
4.2.1.33	Cold chesel/Chhinu small	Tata or Standard Quality	Each		
4.2.1.34	Steel float small	Tata or Standard Quality	Each		
4.2.1.35	Steel float big	Tata or Standard Quality	Each		
4.2.1.36	Plumbob - steel	Tata or Standard Quality	Each		
4.2.1.37	Claw hammer with handle	Tata or Standard Quality	Each		
4.2.1.38	Ball pin hammer with handle	Tata or Standard Quality	Each		
4.2.1.39	Water Pipe Leveler	Standard Quality	Each		
4.2.1.40	Torpedo Level - 10"	Standard Quality	Each		
4.2.1.41	Torpedo Level - 12" - 20"	Standard Quality	Each		
4.2.1.42	Cramps 6' (heavy duty)	Tata or Standard Quality	Set		
4.2.1.43	Tri-square - steel	Tata or Standard Quality	Each		
4.2.1.44	Claw crobar 16mm dia.	Tata or Standard Quality	Each		
4.2.1.45	Claw crowbar 20 mm dia.	Tata or Standard Quality	Each		
4.2.1.46	Claw crowbar 32 mm dia.	Tata or Standard Quality	Each		
4.2.1.47	Auger 15mm dia.	Tata or Standard Quality	Each		
4.2.1.48	Auger 20mm dia.	Tata or Standard Quality	Each		
4.2.1.49	Auger 32mm dia.	Tata or Standard Quality	Each		
4.2.1.50	Small Hand drill (Heavy duty) with bead	Tata or Standard Quality	set		
4.2.1.51	Hand glove (rubber)	Standard Quality	pair		
4.2.1.52	Hand glove (leather)	Standard Quality	pair		
4.2.1.53	Snip (tin cutter) heavy duty.	Bosch or Standard Quality	Each		
4.2.1.54	Grass cutter (Scissor type)	Standard Quality	Each		
4.2.1.55	Sickle big size	Standard Quality	Each		
4.2.1.56	Sand stone 8"	Standard Quality	Each		
4.2.1.57	Machine screw driver	Standard Quality	set		
4.2.1.58	Welding machine, 1-phase, LV, 55A to 320A of multi leads with all complete assosceries as required.	Heavy Duty, Standard Quality	set		
4.2.1.59	Electrode for welding	Standard Quality	Packet		
4.2.1.60	Glass cutter (dimond head)	Standard Quality	each		
4.2.1.61	Machine blade for Max-20" (feed roll)	Standard Quality	Each		
4.2.1.62	Circular saw 12"	Bosch or Standard Quality	Each		
4.2.1.63	Circular saw 10"	Bosch or Standard Quality	Each		
4.2.1.64	Circular saw 8"	Bosch or Standard Quality	Each		

4.2.1.65	Drive chain (1/2") for machine Mx-20 (684)	Standard Quality	Each		
4.2.1.66	Sander machine heavy duty with all assosceries	Standard Quality	set		
4.2.1.67	Orbital Sander machine, GSS 23 AE, electric type, sanding plate 92x182mm orbit dia. 2mm, power i/p 190W, no load speed 7000- 12000 rpm, weight 1.7kg.	Bosch make or equivalent.	Each		
4.2.1.68	Planner, GHO 26-82, electric type, adjustable depth of cut 0-2.6mm, adjustable rebating depth 0-9mm, planing with 163mm, power i/p 710W, no load speed 16500 rpm, weight 2.6kg.	Bosch make or equivalent.	Each		
4.2.1.69	Electric Planner Machine - (12")	Bosch/Equivalent	Each		
4.2.1.70	Jigsaw, GST 85 PBE, electric type, cutting depth in wood 85mm, cutting depth in alluminium 20mm, cutting depth in steel 10mm, power i/p 580W, no load stroke rate 500-3100 rpm, weight 1.7kg.	Bosch or Standard Quality	Each		
4.2.1.71	Jigsaw blade	Bosch or Standard Quality	Each		
4.2.1.72	Marble cutter, GDC 34 M, disc capacity 110mm, cutting depth at 90 deg. 34mm and 45 deg. 22mm, soft grip- yes, bevel cut - yes, power i/p 1300W, no load speed 12000 rpm.	Bosch or Standard Quality	Each		
4.2.1.73	Marble/tile cutter blade, disc capacity 110mm	Bosch or Standard Quality	Each		
4.2.1.74	Power chian/chain saw, GKE 40 BCE, 1.3mm chain guage, 3/8" chain pitch.	Bosch or Standard Quality	Each		
4.2.1.75	Cutting Chain for power chian, 1.3mm chain guage, 3/8" chain pitch, power i/p 2100W, chain speed under load 12 m/s.	Bosch or Standard Quality	Each		
4.2.1.76	Sawing Chain for power chian, 1.3mm chain guage, 18" chain pitch.	Bosch or Standard Quality	Each		
4.2.1.77	Sawing Chain for power chian, 1.3mm chain guage, 24" chain pitch.	Bosch or Standard Quality	Each		
4.2.1.78	Sawing Chain for power chian, 1.3mm chain guage, 32" chain pitch.	Bosch or Standard Quality	Each		
4.2.1.79	Sawing Chain for power chian, 1.3mm chain guage, 3/8" chain pitch.	Bosch or Standard Quality	Each		
4.2.1.80	Dust Extractor - Professional	Bosch/Equivalent	Each		
4.2.1.81	Fork	Bosch/Equivalent	Each		
4.2.1.82	Sanding Discs- Head	Bosch/Equivalent	Each		
4.2.1.83	Sanding Discs-Paper grade 60-120	Standard Quality	Each		
4.2.1.84	Demolition Hammer - 16 Kg [GSH 16-30	Bosch/Equivalent	Each		
4.2.1.85	Demolition Hammer - 10 Kg [GSH 11 E]	Bosch/Equivalent	Each		
4.2.1.86	Demolition Hammer - 4 Kg or 5 Kg [GSH 388]	Bosch/Equivalent	Each		
4.2.1.87	Single wheel barrow, model VA 900 Sinhal make, wheel size 13"x2", body size L=1320mm, H=540mm.	Sinhal or Standard Quality	Each		
4.2.1.88	Wheel barrow wheel 13"x2"	Sinhal or Standard Quality	Each		
4.2.1.89	Multi-purpose Trolley, model HT 180 Sinhal make, wheel size 10"x2.5", Toe plate 180x545mm, body size 1115x520x470mm.	Sinhal or Standard Quality	Each		
4.2.1.90	Multi-purpose Trolley wheel 10"x2.5"	Sinhal or Standard Quality	Each		
4.2.1.91	Hacksaw frame	Heavy duty	Set		
4.2.1.92	Hacksaw blade (Single)	Standard Quality	Each		

4.2.1.93	Hacksaw blade (Double)	Standard Quality	Each		
4.2.1.94	CPVC ratchet cutter to cut the pipe upto 1 inch	Fusion, Truflo, Prince, BirlaAerocon	Each		
4.2.1.95	Champhering tool	Fusion, Truflo, Prince, BirlaAerocon	Each		
4.2.2	**Spare parts for Max 20 - J1020 Combi Planner and chisel mortiser J-930 machine, Jai make**				
4.2.2.1	Teeth chain wheei,for model code no.J-930E machine,jai make.	Jai Make or Equivalent	Each		
4.2.2.2	Chain set-1/2", part code no. 684 for model code no. J-930E machine, Jai make.	Jai Make or Equivalent	Each		
4.2.2.3	Big 1/2 " chain wheel, part code no. 88 for model code no. J-1020 machine, Jai make.	Jai Make or Equivalent	Each		
4.2.2.4	small 1/2 " chain wheel, part code no. 297 for model code no. J-1020 machine, Jai make.	Jai Make or Equivalent	Each		
4.2.2.5	Idler chian wheel 1/2" (w/o bearing), part code no.765 for model code no. J-1020 machine, Jai make.	Jai Make or Equivalent	Each		
4.2.2.6	Big helical gear, part code no. 266B for model code no. J-1020 machine, Jai make.	Jai Make or Equivalent	Each		
4.2.2.7	Small helical gear, part code no. 266A for model code no. J-1020 machine, Jai make.	Jai Make or Equivalent	Each		
4.2.2.8	Gear pully 8" dia., part code no. 93 for model code no. J-1020 machine, Jai make.	Jai Make or Equivalent	Each		
4.2.2.9	Small gear bearing housing (w/o bearing) part code no. 801 for model code no. J-1020 machine, Jai make.	Jai Make or Equivalent	Each		
4.2.2.10	Brass, part code no. 4038 for model code no. J-1020 machine, Jai make.	Jai Make or Equivalent	Each		
4.2.2.11	Saw fence, part code no. for model code no. J-1020 machine, Jai make.	Jai Make or Equivalent	Each		
4.2.2.12	Grinding stone	Jai Make or Equivalent	Each		
4.2.2.13	blade grinder(gear type models)	Jai Make or Equivalent	Each		
4.2.2.14	V belt-B-69	Jai Make or Equivalent	Each		
4.2.2.15	V-belt-B-46	Jai Make or Equivalent	Each		
4.3	**WATER SUPPLY AND SANITATION**				
4.3.1	**Ratched threading die and bits**				
4.3.1.1	Ratched die 1/2" to 1" with all asessories	Tata or Standard Quality	Set		
4.3.1.2	- do - 1 1/2" to 2" -do-	Tata or Standard Quality	Set		
4.3.1.3	- do - 3" to 4" -do-	Tata or Standard Quality	Set		
4.3.1.4	Rachet die set 4" - 5" -do-	Tata or Standard Quality	Set		
4.3.2	**Die bead only**				
4.3.2.1	Die bead 1/2"	Standard Quality	Pair		
4.3.2.2	Die bead 3/4"	Standard Quality	Pair		
4.3.2.3	Die bead 1"	Standard Quality	Pair		
4.3.2.4	Die bead 1 1/2"	Standard Quality	Pair		

4.3.2.5	Die bead 2"	Standard Quality	Pair		
4.3.2.6	Die bead 3"	Standard Quality	Pair		
4.3.2.7	Die bead 4"	Standard Quality	Pair		
4.3.2.8	Die bead 4" (Rachet)	Standard Quality	Pair		
4.3.3	**PIPE WRENCH**				
4.3.3.1	Pipe wrench 10"	Tata or Standard Quality	Each		
4.3.3.2	- do - 12"	Tata or Standard Quality	Each		
4.3.3.3	- do - 14"	Tata or Standard Quality	Each		
4.3.3.4	- do - 18"	Tata or Standard Quality	Each		
4.3.3.5	- do - 24"	Tata or Standard Quality	Each		
4.3.3.6	- do - 32"	Tata or Standard Quality	Each		
4.3.3.7	- do - 36"	Tata or Standard Quality	Each		
4.3.3.8	Chain wrench 24"	Tata or Standard Quality	Each		
4.3.3.9	Chain wrench 32"	Tata or Standard Quality	Each		
4.3.3.10	Sly wrench - 8"	Tata or Standard Quality	Each		
4.3.3.11	Sly wrench - 10"	Tata or Standard Quality	Each		
4.3.3.12	Sly wrench - 12"	Tata or Standard Quality	Each		
4.3.3.13	Sly wrench - 14"	Tata or Standard Quality	Each		
4.3.3.14	Sly wrench - 18"	Tata or Standard Quality	Each		
4.3.3.15	Sly wrench - 24"	Tata or Standard Quality	Each		
4.3.3.16	Monkey plier 8"	Tata or Standard Quality	Each		
4.3.3.17	Monkey plier 10"	Tata or Standard Quality	Each		
4.3.3.18	Monkey plier 12"	Tata or Standard Quality	Each		
4.3.3.19	Monkey plier 14"	Tata or Standard Quality	Each		
4.3.3.20	Monkey plier 18"	Tata or Standard Quality	Each		
4.3.3.21	Alluminuim Glass Celtro 18.5"	Tata or Standard Quality	Each		
4.3.3.22	Alluminuim Glass Celtro 24.5"	Tata or Standard Quality	Each		
4.3.3.23	Pipe Vice 1/2"- 2"	Tata or Standard Quality	Each		
4.3.3.24	Pipe Vice 2"- 4"	Tata or Standard Quality	Each		
4.3.3.25	Allen Key	Tata or Standard Quality	Set		
4.3.3.26	Screw driver set	Tata or Standard Quality	Set		
4.3.3.27	Plier 10"	Tata or Standard Quality	Each		

4.3.3.28	Rod cutter machine	Tata or Standard Quality	Each		
4.3.3.29	Manhole Cleaning rod (1meter length)	Standard Quality	Per rod		
4.3.3.30	Carborandurn stone - Hand	Standard Quality	Each		
4.3.3.31	Carborandurn stone - Machine	Standard Quality	Each		
4.4	**SAFETY GEARS - General**				
4.4.1	Rubber Insulated Electrical Gloves, 9.5 inches lenght for Low Voltage made up of Class 0 rubber.	Standard Quality	Pair		
4.4.2	Rubber Insulated Electrical Gloves, 10 inches lenght for Medium Voltage made up of Class 0 rubber.	Standard Quality	Pair		
4.4.3	Rubber Insulated Electrical Gloves, 11 inches lenght for High Voltage made up of Class 0 rubber.	Standard Quality	Pair		
4.4.4	Satety Gloves - Constructor 2243	Safety Jogger/Equivalent	Pair		
4.4.5	Satety Gloves - Concrete 3111	Safety Jogger/Equivalent	Pair		
4.4.6	Satety Gloves - Shield 4543 - for knifes and glasses	Safety Jogger/Equivalent	Pair		
4.4.7	Construction Safety Harness (belt) - Half Body	Camp/Equivalent	Set		
4.4.8	Construction Safety Harness (belt) - Full Body	Camp/Equivalent	Set		
4.4.9	Construction Safety Harness (belt) - [1924 Jasper CR 3]	Camp/Equivalent	Each		
4.4.10	Construction Safety Helmet with Chin Strap-Yellow Colour	3M/Equivalent	Each		
4.4.11	Construction Safety Helmet with Chin Strap-Blue Colour	3M/Equivalent	Each		
4.4.12	Construction Safety Helmet with Chin Strap-White Colour	3M/Equivalent	Each		
4.4.13	Safety Goggles [332/334]	3M/Equivalent	Each		
4.4.14	Safety Googles for Welding	3M/Equivalent	Each		
4.4.15	Safety Shields for Welding	3M/Equivalent	Each		
4.4.16	Apron- thick cloth for construction	3M/Equivalent	Each		
4.4.17	Ear-Plug	3M/Equivalent	Each		
4.4.18	Ear Muffs	3M/Equivalent	Each		
4.4.19	Chemical Mask	3M/Venus / Equivalent			
4.4.20	Safety Cloths - reflective vest, materials-polyester, light green colour	3M/Equivalent	Each		
4.4.21	Construction Safety/Dusk Masks - [N95]	3M/Equivalent	Each		
4.4.22	Construction Safety Boot, Full sizes 6-13-Gents	Allen Cooper/ Equivalent	Each		
4.4.23	Construction Safety Boot, Full sizes 6-13 - Lady	Allen Cooper/ Equivalent	Each		
4.4.24	JCB 4X4 Safety Boot in Tan/Black - for Officers - distinctively branded rubber outsole for durability, with a number of different tread patterns, and a softer, phylon innersole for increased comfort in wear. sole unit is antistatic, oil and slip resistant, and heat resistant to 300C. • Tan/Black boot • Water resistant leather upper • with waterproof and breathable lining • Lightweight phylon midsole with forefoot flex channels • Oil and slip	JCB/Safety Jogger/Cat	Each		

	resistant outsole • Pierce resistant steel midsole • Steel Toe Cap • Full sizes 6-13				
4.4.25	Fluorescent reflector coat with letter NHDCL Logo on one side.	Standard Quality	Each		
4.4.26	Rain Coat (Pant & Coat)	Duckback/ Northface/Equivalent	Pair		
4.5	**Tools and Machines**				
4.5.1	Supply of Concrete core drilling machine with core drill bit-2 speed portable heavy duty with manual	Bosch or Equivalent			
4.5.2	Supply of 24" Combination machine surface planner,thickness plannesr,wood planners etc-Mode no - J-703 with manual	Jai make or Equivalent			
4.5.3	Supply of Laser distance measurer equipments GLR825 / ES2922 with manual	Bosch or Equivalent			
4.5.4	Supply of Wall plastering Machine XJFQ-1000 specification complete variety automatic with manual	Standard Quality	Each		
4.5.5	Supply of Hydraulic aluminium alloy lift which can lift upto 6 storyed building height SDLIFT with manual	Standard Quality	Each		
4.5.6	Supply of DP-006 Electric paint sprayer gun with the following specification 500 power watt,max flow rate of 100ml/min,tank capacity-2ltrs, hose length-2m,net wt -4 kgs with manual	Standard Quality	Each		
4.5.7	Supply of Trolley with hard solid bicycle tyre,steel frame on four sides with MS Sheet (3nmthick)at side and base heavy duty indian type and 2 nos spare tyres in sets.	Standard Quality	Each		
4.5.8	Supply of Portable grass cutter machine with blade(sets)	Bosch or Equivalent	Each		
4.5.9	Supply of Grass cutter blade good quality	Bosch or Equivalent	Each		
4.5.10	Supply of Mini excavator	Standard Quality	Each		
4.5.11	Supply of Machine for opening and closing of screws battery operating system	Bosch or Equivalent	Each		
4.5.12	Supply of Crimping tools with hydraulic type	Standard Quality	Each		
4.5.13	Supply of Concrete cutter machine with portable heavy duty with manual	Bosch or Equivalent	Each		
4.5.14	Supply of concrete cutter blade good quality	Bosch or Equivalent	Each		
4.5.15	Supply of Helmet with light(torch) which are used in heads	Standard Quality	Each		
4.5.16	Supply of Designers drill	Standard Quality	Each		
4.5.17	Supply of tool bags	Standard Quality	Each		
4.5.18	Supply of Portable grinding machine for welding purpose	Bosch or Equivalent	Each		
4.5.19	POS 1400 ACE	Standard Quality	Each		
4.5.20	Screw driving machine	Bosch or Equivalent	Each		
4.5.21	Digital weighing machine which can weigh up to 500kg	Standard Quality	Each		

4.5.22	Gas Welding with all the necessary components like burner tip,hose pipe,nozzle including 2nos cylinder etc	Standard Quality	Each		
4.5.23	Chain pulley indian type heavy duty	Standard Quality	Each		
4.5.24	Parking demarcation paint heating machine including 2nos gas cylinder with all necessary required materials / tool etc	Standard Quality	Each		
4.5.25	Small hand roller used for compaction of bitumin road works etc	Standard Quality	Each		
4.5.26	Rod cutter blade 355mmx3mmx25.4mm	Bosch or Equivalent	Each		
4.5.27	Rod cutter blade 110mm	Standard Quality			
4.5.28	Hand grander bldae(Bosch GWS-6-100mm)	Standard Quality	Each		
4.5.29	Grass cutter rob/wire	Standard Quality	Meter		
4.5.30	Welding Glass (Google)	Standard Quality	Each		
4.5.31	Welding Cliper	Standard Quality	Each		
4.5.32	Welding Machine Cable	Standard Quality	Meter		
4.5.33	Circular saw Machine 's Blade	Standard Quality	Each		
4.5.34	Criping plier for internet (Cat 6 cable)	Standard Quality	Each		
4.5.35	Standard Construction Cone	Standard Quality	Each		
4.5.36	M.S Sign Board size (2'x1') - with printing "Men at work" with stand complete	Standard Quality	Set		
4.5.37	Reflector Tape all color	Standard Quality	Mtr		
4.5.38	Round File	Standard Quality	Each		
4.5.39	Flat File	Standard Quality	Each		
4.5.40	Tri-File	Standard Quality	Each		
4.5.41	Circular Sanding paper (40/60/80)mm dia for Sanding Machine	Standard Quality	Mtr		
4.5.42	Concrete Mixer Engine- With hooper, Electric Engine, 7/10 Cft	Bharat Hydraulic/Ashok	Set		
4.5.43	Painting Spray with compressor (20)- 1 set with painting gun	KARI/Bosch	Set		
4.5.44	Concrete Vibrator- Heavy duty with shaft length 3mtr, Nozzle 40mm Diameter	Polymak	Each		
4.5.45	Slump Test Cone (Dimension in compliance with IS 345)	Standard Quality	Each		
4.5.46	Hydraulic analog cube testing machine Test Capacity : 1000 KN	Standard Quality	Each		
4.5.47	Hydraulic/Water Pressure testing machine (pressure 7 Mpa testing pump)	Standard Quality	Each		
4.5.48	Digital Rebound Hammer (Schemidt)	Schemidt & Equivalent	Each		

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