BHUTAN POWER CORPORATION LIMITED

(An ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 Certified Company) (Registered Office, Thimphu)

Central Maintenance Division Project Office Strategy and Technology Services Thimphu: Bhutan



(Tender No. BPC/CMDPO/2020 Equipment/2020/01)

BID DOCUMENT

FOR

THE SUPPLY AND DELIVERY OF MACHINERIES,

TOOLS, TESTING EQUIPMENT, SPARES AND

CONSUMABLES

TENDER NO:

BPC/CMDPO/2020 Equipment/2020/01

DATE:

15 September, 2020

WORK:

THE SUPPLY AND DELIVERY OF MACHINERIES, TOOLS, TESTING EQUIPMENT, SPARES AND

CONSUMABLES

CONTENTS OF THE BID DOCUMENT

SL#	Section	Title	Page No.
1	-	Checklist for bid submission	
2	Part 1	Bidding Procedures	
3	Section I	Instruction to Bidders (ITB)	1-25
4	Section II	Bid Data Sheet	1-5
5	Section III	Evaluation and Qualification Criteria	1-4
6	Section IV	Bidding Forms	1-12
7	Part 2	Supply Requirements	
8	Section V	Schedule of Supply	
9	Part 3	Conditions of The Contract and Contract Forms	
10	Section VI	General Conditions of Contract (GCC)	1-15
11	Section VII	Special Conditions of Contract (SCC)	1-5
12	Section VIII	Contract Forms	1-5

Note: Part 1 Section IV (Bidding Forms) are enclosed at the end of the bidding document for convenience.





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Registered Office, Thimphu
Central Maintenance Division Project Office
Strategy and Technology Services

Thimphu: Bhutan



Invitation for Bids

Date: 15th September, 2020 Tender No.: BPC/CMDPO/2020 Equipment/2020/01

- 1. The Central Maintenance Division Project Office invites sealed bids from eligible bidders for the Supply and delivery of Machineries, Tools, Testing Equipment, Spares and Consumables.
- 2. Interested eligible bidders may obtain further information on the bid form and inspect the bidding documents at the office of *Project Director*, *Central Maintenance Division Project Office*, *Bhutan Power Corporation Ltd.*, *Thimphu*, *Bhutan*.
- A complete set of bidding documents can be purchased by any interested eligible bidder on the submission of written application to the above address on or before 12:30 hours on 15th October 2020 and upon payment of non-refundable fee of Nu. 1,000.00.
- 4. Bidding documents can be also downloaded from the Purchaser's website but should register with the Purchaser on or before 12:30 hours on 15th October 2020 after paying registration fee of Nu. 200.00 (Ngultrum Two Hundred) only. The registration shall be done through written application together with the business license copy and tax clearance to make the bid enforceable.
- 5. All bids must be accompanied by a bid security and must be delivered in accordance with the Instructions to Bidder on or before 13:00 hours on 15th October 2020 and will be publicly open immediately thereafter.

Lot Description	Amount (Nu.)
Lot 1: Machineries	76,939.00
Lot 2: Tools	9,871.40
Lot 3: Testing Equipment	36,925.04
Lot 4: Spares and consumables	53,420.36



Phone: +975-2-330684/325095; E-mail: herukazangpo@bpc.bt; Web: www.bpc.bt

CHECKLIST FOR BID SUBMISSION

G1 //	DARTICHII ADS	Purchasers Requirement	Bidders to fill up
S1#	PARTICULARS	YES/NO	YES/NO
1	Signed Bid Form and Price Schedule (BOQ)	YES	
2	Power of Attorney	YES	
3	Valid Trade License/ Manufacturing License	YES	
4	Manufacturer's authorisation (In case the supplier is a dealer)	NO	
5	Document Establishing Eligibility of the Bidder	YES	
6	Documents establishing of the Bidders qualification to perform the contract	YES	
7	Documents establishing the goods' conformity to the bidding documents	YES	
8	Guaranteed Technical Particulars (GTP)	YES	
9	EMD drawn in favor of Director, Finance & Account Services, BPC, Thimphu, Bhutan.	YES	
10	Signed Integrity Pact	YES	
11	Signed Vendor Performance Management System (VPMS)	YES	
12	Joint Venture, Consortium or Association (JV/C/A) Partner Information Form (If applicable)	YES	





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Registered Office, Thimphu Central Maintenance Division Project Office Strategy and Technology Services Thimphu: Bhutan



6. Central Maintenance Division Project Office, Bhutan Power Corporation Ltd. shall not be responsible for any costs or expenses incurred by bidders in connection with the preparation or delivery of bids.





PART 1- Bidding Procedures



Section I. Instructions to Bidders

Table of Contents

A.	General
1.	Scope of Bid4
2.	Fraud and Corruption4
3.	Eligible Bidders6
4.	Exclusion of Bidders6
5.	Vendor Performance Management System (VPMS)7
6.	Joint Ventures
В.	Contents of Bidding Documents
7.	Sections of Bidding Documents7
8.	Clarification of Bidding Documents
9.	Amendment of Bidding Documents9
C.	Preparation of Bids
10.	Cost of Bidding Documents9
11.	Language of Bid9
12.	Documents Comprising the Bid9
13.	Bid form
14.	Price Schedules
15.	Alternative Bids
16.	Bid Prices and Discounts
17.	Bid Currencies
18.	Documents Establishing Eligibility of the Bidder
19.	Documents Establishing Qualifications of the Bidder
20.	Documents Establishing the Goods' Conformity to the Bidding Documents
21.	Period of Validity of Bids14
22.	Bid Security14
23.	Formats and Signing of Bid15
D.	Submission and Opening of Bids
24.	Submission, Sealing and Marking of Bids
25.	Deadline for submission of Bids
	70/

Section I-Instructions to Bidders

26.	One Bid per Bidder	16
27.	Late Bids	16
28.	Modification, Substitution and withdrawal of Bids	17
29.	Bid Opening	17
E.	Evaluation and Comparision of Bids	
30.	Confidentiality	18
31.	Clarification of Bids	19
32.	Deviations, Reservations, and Omissions	19
33.	Responsiveness of Bids	19
34.	Nonconformities, Errors and Omissions	20
35.	Preliminary Examination of Bids	20
36.	Examination of Terms and Conditions; Technical Evaluation	20
37.	Conversion to to Single Currency	21
38.	Margin of Preference	21
39.	Evaluation of Bids	21
40.	Comparison of Bids	22
41.	Post qualification of the Bidder	22
42.	Contacting the Purchaser	
43.	Purchaser's Right to Accept Any Bid and to Reject Any or All Bids	23
F.	Award of Contract	23
44.	Award Criteria	23
45.	Purchasers Right to Vary Quantities at Time of Award	23
46.	Notification of Award	23
47.	Signing of Contract	24
48	Performance Security	24



Section I. Instructions to Bidders

			A. General
1.	Scope o	f Bid	
1.1	Do	Section	chaser, as indicated in the Bid Data Sheet (BDS), issues these Bidding and the supply of Goods and Services incidental thereto as specified on V, Schedule of Supply. Tender number and tender description, lot and lot description are provided in the BDS.
1.2	Al	l bids ese ins	are to be completed and returned to the Purchaser in accordance with tructions to the bidders.
1.3	Tł	rough	out this Bidding Document:
1.0		a.	the term "in writing" means communicated in written form with proof of receipt:
		b.	if the context so requires, singular means plural and vice versa; and
		c.	"day" means calendar day
2.	Frau	d and	Corruption
2.1	highest	standa	on policy to require that Purchasers, Bidders and Suppliers observe the ards of ethics during the procurement and execution of contracts. In his policy, the Corporation:
	a.	define	es, for the purposes of this provision, the terms set forth below as
		i.	"Corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
		ii.	"Fraudulent practice" 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;

In this context, any action taken by a Bidder, and Supplier to influence the procurement process or contract execution for undue advantage

"another party" refers to a Corporation official acting in relation to the procurement process or contract execution. In this context, "Corporation official" includes employees of BPC taking or reviewing procurement decisions.

a "party" refers to a Corporation 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.

³ "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.

		design impro	asive practice" ⁵ is an arrangement between two or more parties and to achieve an improper purpose, including to influence perly the actions of another party;
		or har	cive practice" is impairing or harming, or threatening to impair m, directly or indirectly, any party or the property of the party to nce improperly the actions of a party;
	v.	"Obst	ructive practice" is
		aa.	deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order 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 person appointed by the Purchaser and/or any relevant agency provided for under ITB Sub-Clause 2.1 (d) below.
b.	C	ard have, co	proposal for award if it determines that the Bidder recommended as, directly or through an agent, engaged in corrupt, fraudulent percive or obstructive practices in competing for the contract in
c.	indefir time of corrup	nitely leterm t, frau	n a firm or individual, including declaring them ineligible, either or for a stated period of time, to be awarded contract if it at any nines that they have, directly or through an agent, engaged indulent, collusive, coercive or obstructive practices in competing ecuting contract;
d.	any ag	gency	ne right requiring Bidders and Suppliers to permit the Purchaser or person appointed by the Purchaser to inspect their accounts an other documents relating to their Bid submission and contract e and to have them audited by auditors appointed by the Purchaser
e.	attach	to the	t Bidders, as a condition of admission to eligibility, execute an eir bids an Integrity Pact Statement in the form provided in Section Forms. Failure to provide a duly executed Integrity Pachall result in disqualification of the Bid; and
f.	will r	eport	any case of corrupt, fraudulent, collusive, coercive or obstructive the relevant RGoB agencies, including but not limited to the Anti-

^{5 &}quot;parties" refers to participants in the procurement process (including corporation officials) and an "improper purpose" includes attempting to establish bid prices at artificial, non competitive levels.
6 a "party" refers to a participant in the procurement process or contract execution.

		corru with t	ption Commission (ACC) of Bhutan, for necessary action in accordance the statutes and provisions of the relevant agency.
3.	Eligi	ble Bidd	ers
3.1	from	outside	A for bids is open to all Manufacturers/Export House/Authorized Dealers Bhutan and to Manufacturers/Authorized Dealers/National Suppliers or the Ministry of Economic Affairs of Royal Government of Bhutan widence to corroborate the claim must be enclosed).
3.2	a con	flict of i	I not be eligible who have a conflict of interest. All Bidders found to have nterest shall be disqualified. Bidders are considered to have a conflict of bidding process if they:
	a.	affili servi docu	ates which has been engaged by the Purchaser to provide consulting ces for the preparation of the design, specifications and/or other ments to be used for the procurement of the Goods to be purchased and to these Bidding Documents, or
	b.	fami has a is de	loy or otherwise engage, either directly or through any of their affiliates, a ly member of a Corporation who either is employed by the Purchaser or an authority over it. For the purposes of this Sub-Clause a family member fined as parents, spouse and children as mentioned in the Service Record e employee.
4.	Exc	lusion of	f Bidders
4.1		A bidde	er shall be excluded from participating in a procurement procedure under owing circumstances who:
		a.	is suspended/debarred by any Statutory Agencies in Bhutan or in the region to Corporation's knowledge;
		b.	has been declared bankrupt, judgment or pending legal action that could impair operating as a going concern;
		C.	has been found guilty of professional misconduct by a recognised tribunal;
		d.	has not fulfilled his obligations with regard to any statutory dues;
		e.	is or has been guilty of serious misrepresentation in supplying information required under this Section.
		f.	is debarred from participation in any public procurement by any Competent Authority as per law;
		g.	does not qualify under the performance assessed through the Vendo

		Performance Management System of the Corporation;
	h.	as a matter of law or official regulation, Royal Government of Bhutan prohibits commercial relations with the country in which the Bidder is constituted, incorporated or registered.
<i>=</i> 1	Vandar Dar	formance Management System (VPMS)
5. \(\)		
5.1	in the (www. subsequent	rformance of the vendor shall be assessed as per the guidelines contained Vendor Performance Management System available in BPC website bpc.bt) for the purpose of determining the eligibility in participating in uent tenders.
5.2	bidding	PMS acceptance form is provided in the Section IV, Bidding Forms of the documents. The bidders are required to sign VPMS Acceptance Form to the applicability of VPMS. In case the VPMS Acceptance Form is ned, the bid for that bidder shall be liable for rejection.
6.	Joint Ventu	ires (JV)
6.1	Bids s	ubmitted by a Joint Venture of two or more Companies as partners shall y with the following requirements:
	a.	the Bid, and in case of successful Bid, the Contract form, shall be signed so as to be legally binding on all partners;
	b.	one of the partners shall be authorized to be in charge; and this authority shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the partners;
	C.	the partner in charge shall be authorized to incur liabilities, received payments and receive instructions for and on behalf of any or all partners of the joint venture;
	d.	all partners of the joint venture shall be liable jointly and severally for the execution of the Contract in accordance with the Contract terms, and a relevant statement to this effect shall be included in the authorization mentioned under (b) above as well as in the Bid Form
		and the Form of Agreement (in case of a successful Bid); and a copy of the registration certificate/license of joint venture shall b

B. Contents of Bidding Documents

Sections of Bidding Documents 7.

The Bidding Document consist of Parts 1, 2, and 3, which include at the 7.1

	Sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITB 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
	PART 2 Supply Requirements
	Section V. Schedule of Supply
	PART 3 Conditions of Contract and Contract Forms
	 Section VI. General Conditions of Contract (GCC) Section VII. Special Conditions of Contract (SCC) Section VIII. Contract Forms
7.2	The Purchaser is not responsible for the completeness of the Bidding Document and its addenda, if they were not obtained directly from the Purchaser.
7.3	The bidder is expected to examine the bidding documents, including all instructions, forms, terms and specifications. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the Bidding Documents in every respect would result in the rejection of that Bid.
8.	Clarification of Bidding Documents
8.1	The bidders shall not be allowed to seek any clarifications on the bidding documents in person or through any verbal communications.
8.2	Prospective bidders requiring any further information or clarification of the bidding documents may notify the Purchaser in writing at the Purchaser' mailing address indicated in the BDS. The Purchaser will respond in writing to any request for information or clarification of the bidding documents, which receives no later than 10 (ten) days prior to the deadline for the submission of Bids prescribed by the Purchaser. The Purchaser's response (including a explanation of the query) will be sent in writing to all prospective bidders when have purchased the Bidding Documents.
8.3.	Pre bid meeting shall be conducted if 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 and shall form a integral part of the bidding document.

). A	Amendment of Bidding Documents
P.1	At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by addendum.
9.2	The addendum shall be part of the Bidding Documents and shall be notified in writing to all prospective bidders who have purchased the Bidding Documents. Such addendum shall be binding and shall require that prospective Bidders confirm receipt of it before the time established for the opening of Bids.
9.3	In order to afford prospective bidders reasonable time in which to take the addendum into account in preparing their Bids, the Purchaser may, at its discretion, extend the deadline for the submission of Bids.
9.4	Prospective bidders who may have downloaded the bidding documents from the website, the corrigendum to the bidding documents will also be published on the web site. It will be the responsibility of such bidders to regularly visit the website for any addendum to the bidding documents until the last date of bid submission. Purchaser shall in no way be responsible for any ignorance of the bidder about the addendum to the bidding documents.
	C. Preparation of Bids
10.	Cost of Bidding Documents
10.1	The bidder shall bear all costs associated with the preparation and delivery of its bid and the Purchaser will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
10.2	Prospective bidders who may have downloaded the bidding documents from the web site should register with Purchaser on or before the closing of Bid Sale Date and make payment for the cost of the bid documents.
11.	Language of Bid
11.1	The Bid and 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 language specified in BDS, in which case, for purposes of interpretation of the Bid, <i>such</i> translation shall govern.
12.	Documents Comprising the Bid
12.1	The Bid shall comprise the following:
	a. Bid Form and Price Schedules completed in accordance with ITB13, 14,10

		and 17;	
	b.	Documentary evidence establishing in accordance with ITB 18, that the bidder is eligible to bid.	
	c.	Documentary evidence establishing in accordance with ITB 19, that the bidder is qualified to perform the Contract if its Bid is accepted;	
	d.	Documentary evidence establishing in accordance with ITB 20, that the goods to be supplied by the bidder conform to the Bidding Documents;	
	e.	Bid security furnished in accordance with ITB 22;	
	f.	Written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 23;	
	g.	Alternative bids, if permissible, in accordance with ITB 15;	
	h.	Integrity Pact Statement, in accordance with ITB 2.1(e);	
	i.	VPMS acceptance form, in accordance with ITB 5; and	
	j.	Any other document required as per the bidding documents.	
13.	Bid f	form	
13.1	The bidder shall complete the Bid 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. A bid in which the bid form is not duly filled, signed and sealed by the bidder shall be rejected.		
14.	Pric	e Schedules	
14.1	The bidder shall complete the appropriate Price Schedule included herein, stating the unit prices, total price per item, the total amount and the expected countries of origin of the Goods to be supplied under the Contract. This Price Schedules form must be completed without any alterations to its format, and no substitutes shall be accepted.		
15.		rnative Bids	
15.1	Un	less otherwise indicated in the BDS, alternative bids shall not be considered.	
16.		Prices and Discounts	
16.1	The Scl	e prices and discounts quoted by the Bidder in the Bid Form and in the Price hedules shall conform to the requirements specified below.	
16.2	Al	l lots and items must be listed and priced separately in the Price Schedules.	

16.3	The pr	rice to be	e quoted in the Bid Form shall be the total price of the Bid excluding offered.	
16.4	annlica	ation in	all quote any unconditional discounts and the methodology for their the Bid Form. The discount letter offer shall be accepted only when the main envelope of the bidding document.	
16.5	1		W, CIF, CIP, DDP and other similar terms shall be governed by the ed in the current edition of Incoterms, published by The International Commerce, at the date of the Invitation for Bids or as specified in the	
16.6	Prices shall be quoted as specified in each Price Schedule included 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:			
	a.	For G	oods manufactured in Bhutan:	
		i.	the price of the Goods, quoted 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 to manufacturer or assembly of Goods, if specified in BDS;	
		ii.	any Bhutan sales and other similar taxes which will be payable on the Goods if the contract is awarded to the Bidder, if specified in BDS; and	
		iii.	the total price for the item.	
	b.	For C	Goods to be offered from outside Bhutan:	
		i.	the price of the Goods, quoted CIP/DDP place of entry in Bhutan, as specified in BDS;	
		ii.	custom duties and any other taxes which will be payable on the Goods in Bhutan, if specified in BDS;	
		iii.	the cost of inland transportation, insurance and other local costs incidental to delivery of the Goods from the port of entry to their final destination, if specified in BDS; and	
		iv.	the total price for the item.	
	c.	40.077	Related Services, other than inland transportation and other services ired to convey the Goods to their final destination, whenever such ted Services are specified in Section V, Schedule of Supply:	

	i.	the price of each item compromising the Related Services
		(inclusive of any applicable taxes).
16.7	Contract and not s BDS. A bid subn responsive and sha are permitted by th be subject to adju with a fixed price as zero.	the Bidder shall be fixed during the Bidder's performance of the ubject to variation on any account, unless otherwise specified in the nitted with an adjustable price quotation shall be treated as non-all be rejected pursuant to ITB 33 unless adjustable price quotations he BDS. If, in accordance to BDS, prices quoted by the Bidder shall astments during the performance of the Contract, a Bid submitted quotation shall not be rejected, but price adjustment shall be treated
16.8	If so indicated pu	rsuant to ITB 1.1, Bids are based on Lots/Packages, for which all in lots for easy identification.
	For the purpose	of bidding and inventory management, related SKUS shall be pecific lots like transformers, conductors, cables and fabrication unner most advantageous to the BPC for a particular tender.
	consists of items quoted shall corr each lot and to o Bidders can offer	e the option of submitting a proposal on any or all LOTS. Each lot grouped in packages. Unless otherwise indicated in the BDS, prices respond to one hundred percent (100%) of the items specified for ne hundred percent (100%) of the quantities for each item of a lot any price reduction (discount) for any or all Lots and shall specify price reductions applicable to each Lot, or for all the Lots. Price counts shall be submitted in accordance with ITB 16.4.
17.	Bid Currencies	
17.1	Rupees for good	be quoted in Ngultrum for goods offered from Bhutan, in Indians offered from India; and in US dollar/major foreign currencies for other Countries.
	shall be accepted the exchange rapublished by the bid expressed in shall be made responsibilities of	essed in Indian currency and US Dollars/ major foreign currencies and evaluated in accordance to ITB 37. For bid evaluation purpose ate will be based on the Telegraphic Transfer (TT) selling rate Royal Monetary Authority of Bhutan on the day of bid opening. Fo Indian currency and US Dollars/major foreign currencies, payment in equivalent Ngultrum through banking channel and the of payment transfer and transfer charges lie on the Suppliers.
18.		blishing Eligibility of the Bidder
18.1	eligibility to bid	Il furnish, as part of its Bid, certification establishing the bidder pursuant to ITB 3. locuments and literatures viz. ISO Certificate, Type Test Certificate
	1	

	makes/brands introduced in Bhutan.
8.3	If the Bidder is JV in accordance with ITB 6, a copy of the registration certificate/license shall be submitted.
9.	Documents Establishing Qualifications of the Bidder.
9.1	The documentary evidence of the Bidder's Qualification 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 is not a manufacturer or otherwise 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 by the BDS, in the case of a bidder not doing business in Bhutan, the Bidder is, or will be (if the contract is awarded to it), represented by authorised representative in Bhutan equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligation prescribed in the Conditions of Contracts and/or Technical Specifications.
	c. That the Bidder meets each of the qualification criteria specified in Sectio III, Evaluation and Qualification Criteria.
20.	Documents Establishing the Goods' Conformity to the Bidding Documents.
20.1	To establish the conformity of the Goods to the Bidding Documents, the Bidder sha furnish as a part of its Bid, the documentary evidence that the Goods conform to the technical specifications and standards specified in Section V, Schedule of Supply.
20.2	The documentary evidence may be in the form of literature, drawings or data, and shall consists of a detailed item by item description of the essential technical and performance characteristics of Goods. If required by the BDS, the bidders are required to confirm and sign on the guaranteed technical particulars of the good (GTPS) that is indicated in the Section V, Schedule of Supply. Any deviations from the indicated specifications must be clearly indicated in the deviation schedul Section IV, Bidding Form.
20.3	If required, the Bidder shall also furnish a list giving full particulars, includir available sources and current prices, of all spare parts, special tools, etc., necessar for the proper and continuing functioning of the Goods.
20.4	Standards for workmanship, material and equipment, and references to brand name or catalogue numbers, specified by the Purchaser in Section V, Schedule of Suppler are intended to be descriptive only and not restrictive. The bidder may offer other standards of quality, brand names and/or catalogue numbers in its Bid, provided the it demonstrates to the Purchaser's satisfaction that the substitutions are equivalent superior to those designated in Section V, Schedule of Supply with the exception

	strategic	critical and strategic security items category.
20.5	In order bidders s producti previous	to prove that the Goods offered are of acceptable quality and standard, the shall furnish the documentary evidence that the Goods offered have been in on and all relevant catalogues, test certificates, ISO certificates, list of clients, value of business and company or manufacturer profile for all new re submitted.
21.	Period of	f Validity of Bids
21.1	1:1	all remain valid for the period specified in the BDS days from the date of ning prescribed by the Purchaser, pursuant to ITB 28. A bid valid for a period shall be rejected by the Purchaser as non-responsive.
21.2	Purchas The rec agrees t 22 shall	etional circumstances, prior to the expiration of the bid validity period, the er may solicit bidder's consent to an extension of the period of bid validity. Juest and the responses thereto shall be made in writing. If the bidder to the extension request, the validity of the bid security provided under ITB also be suitably extended. In the event the Bidder refuses the request, the libe disqualified without forfeiting the bid security. Bidders granting the shall not be required or permitted to modify its Bid.
22.	Bid Secu	ırity
22.1	denomi the BD	
22.2	The Bio	d Security shall be in one of the following forms acceptable to the purchasers:
	a.	Unconditional bank guarantee issued by a reputed Financial Institution acceptable to the Purchaser in the Bid Security Form included in Section IV Bidding Form or another form acceptable to the Purchaser.
	b.	Banker's cheque/ cash warrant.
	c.	Demand draft.
	d.	If the institution issuing the Bid Security furnished by the Bidder is located outside the Purchaser's country, the Bid Security shall be counter guaranteed by a correspondent financial institution located in the Purchaser's country to make it enforceable,
22.3	period	id Security shall be valid for period of thirty (30) days beyond the validity of the Bids as specified in BDS.
1		Bid not secured in accordance with ITB 22.1, 22.2 and 22.3 above shall be

2.5	An unsi	Successful bidder's bid security will be discharged/returned within fifteen (15) for signing of the Contract with the successful Bidder.
22.6	perform	ccessful bidder's bid security will be discharged/returned upon furnishing the nance security, pursuant to ITB 46 and the bidder's executing the Contract, nt to ITB 47.
22.7	The bid	d security may be forfeited:
	a.	If a bidder withdraws its Bid during the period of bid validity specified by the bidder on the Bid Form, except as provided in ITB 21.2;
	b.	If a bidder does not accept arithmetical corrections of its bid price;
	c.	In the case of a successful bidder, if the bidder fails
		i. To sign the Contract in accordance with ITB 47; or
		ii. To furnish the performance security in accordance with ITB 48.
22.8	The Bi	id Security of a JV must be from the JV that submits the Bid.
23.	Format	its and Signing of Bid
23.1	The B describe submit them	Bidder shall prepare one original of the documents comprising the Bid as libed in ITB 12 and clearly mark it as "Original". In addition, the Bidder shall it copies of the Bid, in the number specified in the BDS and clearly mark "COPY". In the event of any discrepancy between the original and the
23.2	The or shall bidder attach typed	be signed by the bidder or a person(s) duly authorized to sign on behalf of the r. Written power-of-attorney shall indicate such authorization and shall be need to the Bid. The name and position held by each person signing must be or printed below the signature.
23.3	necess	Bid shall contain no interlineations, erasures or overwriting except as ssary to correct errors made by the bidder, in which case such correction shall itialled by the person or persons signing the Bid.
		D. Submission and Opening of Bids
24.	Subm	nission, Sealing and Marking of Bids
24.1	Bids	shall be delivered by hand, courier or registered post. The Bidder shall seal original of the Bid and the number of copies stipulated in the BDS, including native Bids if permitted in accordance with ITB 15 in separate inner envelopes

	right a will the one Bi Each partiman Bid	ereafter be subject to the deadline as extended. Id per Bidder In bidder shall submit only one Bid either by itself, or as a mer in a joint venture or as a responsible officer in the agement of the company. A bidder who submits or participates in more than one (except alternative Bids if allowed, pursuant to ITB 15) shall be disqualified.
25.2 26.	right a will the One Bi	ereafter be subject to the deadline as extended. Id per Bidder In bidder shall submit only one Bid either by itself, or as a mer in a joint venture or as a responsible officer in the agement of the company. A bidder who submits or participates in more than one (except alternative Bids if allowed, pursuant to ITB 15) shall be disqualified.
	right a will th	ereafter be subject to the deadline as extended. id per Bidder
	right a will th	ereafter be subject to the deadline as extended.
25.2	by am	viiiii 1 1! to the deadline
	The P	1: 1 Diding Documents in accordance will IID 7, ill which case an
25.1	addres	hall be delivered by hand, courier or registered post to the Purchaser at the s and no later than the date and time indicated in BDS. urchaser may, at its discretion, extend the deadline for the submission of Bids
25.	·····	ne for submission of Bids
24.4	will as	outer envelope is not sealed and marked as required by ITB 24.3, the Purchaser sume no responsibility for the bid misplacement or premature opening.
	e.	Bear a warning not to open before the time and date for bid opening, in accordance with ITB 29.1.
	d.	identification marks as specified in the BDS; and
		Bear the identification number pursuant to ITB 1.1 and any additional
	c.	Be addressed to the Purchaser in accordance with ITB 25.1;
	b.	Bear the name and address of the Bidder;
	a.	Be marked "Confidential";
24.3	The out	er envelope shall:
	b.	Be marked "ORIGINAL", "ALTERNATIVE" (if any) and "COPY".
	a.	Be sealed and bear the name of the Bidder.
	The inn	er envelopes shall:
24.2		
4.2	or other	sealant to prevent reopening.

28.	Modification,	Substitution and withdrawal of Bids
28.1	The bidder ma written notice representative, The correspond	y modify or substitute its Bid after it has been submitted by sending a in accordance with the ITB 24, duly signed by an authorized and shall include a copy of authorization in accordance with ITB 23.2. ding substitution or modification of the Bid must accompany the en notice. All notices must be:
	a.	Submitted in accordance with ITB 23 and 24, and in addition, the respective envelops shall be clearly marked "SUBSTITUTION" or "MODIFICATION;" and
	b.	Received by the Purchaser prior to the deadline prescribed for the submission of Bids, in accordance with ITB 25.
28.2	notice prior to ITB 25, duly	withdraw its Bid after it has been submitted by sending a written the deadline prescribed for the submission of Bids, in accordance with signed by an authorized representative, and shall include a copy of a accordance with ITB 23.2.
	The Purchaser	then shall mark the envelope as "WITHDRAWN".
28.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
29.	Bid Opening	
29.1	The Purchaser specified in the who choose to	shall conduct the bid opening in the place at the address, date and time e BDS in the presence of bidders or bidders' authorized representatives attend.
29.2	The bidder's Authorization the bid opening	authorized representatives attending the bid opening shall have an Letter from the bidder. Only the authorized representative shall attend g.
29.3	The bidders of the members o	r bidder's authorized representatives shall not be permitted to approach f the Bid Opening Committee or any of the officials.
29.4	bidder's attend	or bidder's authorized representatives who are present shall sigh a lance sheet evidencing their attendance.
29.5	to the Bidder. out and excha shall not be	Next, envelopes marked "SUBSTITUTION" shall be opened and read nged with the corresponding Bid being substituted. The substituted Bid opened, but shall be returned to the Bidder. Envelopes marked TION" shall be opened and read out with the corresponding Bid. Only are opened, read out and recorded at Bid Opening shall be considered.

29.6	record (per l Secur Only consider in acc	ther envelopes shall be opened one at a time, and the following read out and ded: the name of the Bidder and whether there is a modification; the Bid Prices lot if applicable), any discounts and alternative offers; the presence of a Bid ity, if required; and any other details as the Purchaser may consider appropriate. discounts and alternative offers read out and recorded at bid opening shall be dered for evaluation. No Bid shall be rejected at bid opening except for late bids, cordance with ITB 27.1.
29.7	inforr	Purchaser shall prepare a record of the Bid Opening, which shall include the mation disclosed to those present in accordance with ITB 29.6. The minutes shall de, as a minimum:
	a.	The Tender Number and Description;
	b.	The name of the Bidder, Bid number and whether there is a withdrawal, substitution or modification;
	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 names of Bidders at the Bid Opening, and of the Bidders authorized representatives (if any);
	h.	Details of any feedbacks or other comments made by Bidders/Bidders authorized representatives attending the Bid Opening, including the names and signatures of the Bidders/Bidders authorized representatives making the feedback(s) and/or comment(s); and
	i.	The names, designations and signatures of the members of the Bid Opening Committee.
	The	Bidders/Bidders authorized representatives who are present shall sign the record. omission of a Bidders/Bidders authorized representative's signature on the record not invalidate the contents and effect of the record.

E. Evaluation and Comparison of Bids

30.	Confidentiality
30.1	Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process.

30.2	Any e	effort by a Bidder to influence the Purchaser's processing of Bids or award ons may result in the rejection of the bidder's Bid.	
31.	Clarifi	ication of Bids	
31.1	To assist in the examination, evaluation and comparison of Bids, the Purchaser may, at its discretion, ask the bidder for a clarification of its Bid. Any clarification submitted by a Bidder with regard to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's requests for clarification and the response shall be in writing. No change in the price or substances 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 34.		
32.	Deviat	tions, Reservations, and Omissions	
32.1	Durin	ng the evaluation of bids, the following definitions shall apply:	
	a.	"Deviation" is a departure from the requirements specified in the Bidding Document. Any comments, remarks, observations and feedbacks will constitute as deviation and shall be indicated in the deviation sheet;	
	b.	"Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and	
	c.	"Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.	
33.	Respo	onsiveness of Bids	
33.1	of the thereat evalua	archaser's determination of a Bid's responsiveness shall be based on the contents Bid itself, and is to determine which of the Bids received are responsive and fter to compare the responsive Bids against each other to select the lowest ted Bid.	
33.2	specifi	stantially responsive Bid is one that conforms to all the terms, conditions and cations of the Bidding Documents without material deviation, reservation or on. A material deviation, reservation or omission is one that:	
	a.	Effects in any substantial way the scope, quality or performance of the supplies; or	
	b.	Limits or is inconsistent with the bidding documents in a substantial way. The Purchaser's rights or the bidder's obligations under the Contract; or	
	c.	Whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.	

33.3	by the	d is not substantially responsive to the Bidding Documents, it shall be rejected Purchaser and may not subsequently be made responsive by the bidder by ion of the material deviation, reservation or omission.	
34.	Nonco	onformities, Errors and Omissions	
34.1	Provid confor	ed that a Bid is substantially responsive, the Purchaser may waive any non-mities or omissions in the Bid that do not constitute a material deviation.	
34.2	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 nonmaterial nonconformities 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.		
34.3	Provid arithm	ed that the Bid is substantially responsive, the Purchaser shall correct etical errors on the following basis:	
	a.	If there is a discrepancy between the unit price and the total price per item that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price per item will 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 total price as quoted shall govern and the unit price shall be corrected.	
	b.	If there is a discrepancy between the Total Amount and the sum of the Total price per item, the sum of the total price per item shall prevail and the Total Amount will be corrected.	
34.4	If the errors	Bidder that submitted the lowest evaluated Bid does not accept the correction of its Bid shall be disqualified and its Bid Security shall be forfeited.	
35.	Preli	ninary Examination of Bids	
35.2	The Purchaser shall examine and confirm that the following documents and information have been provided in the Bid. If any of these documents or information is missing, the Bid shall be rejected.		
	a.	Bid Form, in accordance with ITB 12.1 (a);	
	b.	Price Schedules, in accordance with ITB 12.1 (a);	
	c.	Bid Security, in accordance with ITB 22.	
36.	Exan	nination of Terms and Conditions; Technical Evaluation	
		Purchaser shall examine the Bid to confirm that all terms and conditions	

	specific	ed in the GCC and the SCC have been accepted by the Bidder without any
		al deviation or reservation.
36.2	with I'	TB 20, to confirm that all requirements specified in Section V, Schedule of of the Bidding Documents have been met without any material deviation or ation.
36.3	Purcha	er the examination of the terms and conditions and the technical evaluation, the aser determines that the Bid is not substantially responsive in accordance with 3, the Bid shall be rejected.
36.4	No co rejecte	onditional offer(s) shall be allowed. A bid with conditional offers shall be
37.	Conve	rsion to Single Currency
37.1	For conver	evaluation and comparison purposes, the Purchaser shall rt all bid prices, expressed in amounts in various currencies into a single acy and use the exchange rates specified in the BDS.
38.	Margii	n of Preference
38.1	provid	rgin of preference may apply to domestic goods manufactured in Bhutan as led for in the BDS. To avail a margin of preference, the Bidder shall provide a
	value	addition certificate from the Ministry of Economic Affairs.
39.	value	addition certificate from the Ministry of Economic Affairs. Evaluation of Bids
39. 39.1	Detail The P	addition certificate from the Ministry of Economic Affairs. Evaluation of Bids
	Detail The P evalua	Evaluation of Bids Purchaser shall evaluate each Bid that has been determined, up to this stage of ation, to be substantially responsive.
39.1	The P evalua To ev criteri	Evaluation of Bids Furchaser shall evaluate each Bid that has been determined, up to this stage of action, to be substantially responsive. Figure a Bid the Purchaser shall only use all the factors, methodologies and
39.1	The P evalua To ev criteri	Evaluation of Bids Purchaser shall evaluate each Bid that has been determined, up to this stage of ation, to be substantially responsive. Paluate a Bid, the Purchaser shall only use all the factors, methodologies and a defined in this ITB 39. No other criteria or methodology shall be permitted. aluate a Bid, the Purchaser shall consider the following: Evaluation shall be done for Items or Lots, as specified in the BDS;
39.1	The P evalua To every criteri	Evaluation of Bids Purchaser shall evaluate each Bid that has been determined, up to this stage of ation, to be substantially responsive. Faluate a Bid, the Purchaser shall only use all the factors, methodologies and a defined in this ITB 39. No other criteria or methodology shall be permitted. Faluate a Bid, the Purchaser shall consider the following: Evaluation shall be done for Items or Lots, as specified in the BDS; The Bid Price, as quoted in accordance with ITB Clause 16;
39.1	The P evaluation of the reverse of t	Evaluation of Bids Purchaser shall evaluate each Bid that has been determined, up to this stage of ation, to be substantially responsive. Faluate a Bid, the Purchaser shall only use all the factors, methodologies and a defined in this ITB 39. No other criteria or methodology shall be permitted. Evaluate a Bid, the Purchaser shall consider the following: Evaluation shall be done for Items or Lots, as specified in the BDS; The Bid Price, as quoted in accordance with ITB Clause 16; Price adjustment for correction of arithmetic errors in accordance with ITB 34.3;
39.1	The P evaluation of the evalua	Evaluation of Bids Furchaser shall evaluate each Bid that has been determined, up to this stage of ation, to be substantially responsive. Faluate a Bid, the Purchaser shall only use all the factors, methodologies and a defined in this ITB 39. No other criteria or methodology shall be permitted. Faluate a Bid, the Purchaser shall consider the following: Evaluation shall be done for Items or Lots, as specified in the BDS; The Bid Price, as quoted in accordance with ITB Clause 16; Price adjustment for correction of arithmetic errors in accordance with ITB.

	f. Adjustments due to the application of a margin of preference, in accordance		
	with ITB Clause 38, if applicable.		
39.4	The Purchaser's evaluation of a Bid shall exclude and not take into account an allowance for price adjustment during the period of execution of the contract, i provided in the bid.		
39.5	The Purchaser's evaluation of a Bid may require the consideration of other factors is addition to the Bid Price quoted in accordance with ITB Clause 16. 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 39.3 (e).		
39.6	If so specified in BDS, Goods are grouped in two or more lots, the Purchaser will evaluate Bids on the basis of LOT WISE or a combination of Lots and the Purchaser shall award one or multiple lots to more than one Bidder.		
40.	Comparison of Bids		
40.1	The Purchaser shall compare all substantially responsive Bids to determine the lower evaluated Bid, in accordance with ITB 39.		
40.2	If the Bid price of the lowest evaluated Bid appears abnormally low, high and/o seriously unbalanced price as compared to other Bidders or past rates, then the Purchaser may require the Bidder to produce written explanations of, justification and detailed price analyses for any or all items offered. Such explanations may include, but are not limited to, details of the method by which the Goods and Related Services are to be provided, the technical solutions chosen, exceptionally favourable conditions available to the Bidder for the execution of the Contract, and the originality of the Goods proposed by the Bidder. After objective evaluation of the explanations, justifications and price analyses, if the Purchaser decides to accept the Bid with an abnormally low and/or seriously unbalanced price, the Purchaser share require that the amount of the Performance Security stipulated in ITB 48 be increased at the expense of the Bidder to a level sufficient to protect the Purchaser again financial loss in the event of default of the successful Bidder under the Contract.		
41.	Post qualification of the Bidder		
41.1	The Purchaser will determine to its satisfaction whether the bidder selected as have submitted the lowest-evaluated and substantially responsive Bid is qualified satisfactorily perform the Contract.		
41.2	The Purchaser will determine the reasonability of the Bid Prices based on the purchase rate and the prevailing market rate during the evaluation.		
41.3	The determination based upon an examination of the documentary evidence of t bidder's qualifications submitted by the bidder, pursuant to ITB 19, as well as su		

	other information as the Purchaser deems necessary and appropriate.
41.4	If required, the Purchase may carry out the inspections of the Bidder's factories to assess the production, technical, financial, and manpower capacity of the Bidder to perform the Contract. The Purchaser shall notify in advance of the date in writing on which the inspection will be made. If the Bidder does not meet the required capacity as assessed by the inspection team, the bid shall be rejected
41.5	An affirmative determination shall be a prerequisite for award of the Contract to the bidder. A negative determination will result in rejection of the bidder's Bid, in which event the Purchaser shall proceed to the next lowest evaluated Bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.
42.	Contacting the Purchaser
42.1	Subject to ITB 31, no bidder shall contact the Purchaser on any matter relating to its Bid, from the time of bid opening to the time the Contract is awarded.
42.2	Any effort by a Bidder to influence the Purchaser in the Purchaser's decisions in respect of bid evaluation, bid comparison or Contract awards will result in the rejection of the bidder's Bid.
43.	Purchaser's Right to Accept Any Bid and to Reject Any or All Bids
43.1	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 award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the ground for the Purchaser's action.
	F. Award of Contract
44.	Award Criteria
44.1	The Purchaser will award the Contract to the successful bidder whose Bid has been determined to be the lowest-evaluated responsive Bid, provided further that the bidder is determined to be qualified to satisfactorily perform the Contract.
45.	Purchasers Right to Vary Quantities at Time of Award
45.1	At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services specified in Section V, 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.
46.	Notification of Award
46.1	The Purchaser will notify the successful bidder in writing that its Bid has been accepted.

16.2	Until a	a formal Contract is prepared and executed, the notification of award shall be ag on the Supplier.
47.	Signin	g of Contract
47.1	contra	n 15 (Fifteen) days from the date of issue of the notification of award of act, the successful bidder are required to come and sign, date and seal the act agreement at the office as specified in BDS.
47.2	Where	e the contract is not signed by both parties simultaneously:
	a.	The Purchaser shall send to the successful bidder two original copies of (1) the full agreed contract and (2) the letter of acceptance, each copy to be signed by the bidder or its duly authorized representative, together with the date of signature;
	b.	The letter of acceptance shall indicate the deadline by which it must be accepted as specified in BDS;
	c.	The successful bidder, if agrees to conclude the contract, must sign and date all original copies of the contract and letter of acceptance and return one copy of each to the Purchaser before the expiry of the deadline indicated in the letter of acceptance;
	d.	Failure of the successful bidder to accept the award/ sign the contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.
47.3	preve use of restri prod prov Purc of d	withstanding ITB 47.1 above, in case signing of the Contract Agreement is ented by any export restrictions attributable to the Purchaser, to Bhutan, or to the of the products/Goods, systems or services to be supplied, where such export actions arise from trade regulations from a country supplying those sucts/Goods, systems or services, the Bidder shall not be bound by its Bid, always ided, however, that the Bidder can demonstrate to the satisfaction of the haser that signing of the Contact Agreement has not been prevented by any lack iligence on the part of the Bidder in completing any formalities, including the ying for permits, authorizations and/or licenses necessary for the export of the sucts/Goods, systems or services under the terms of the Contract.
48.		ormance Security
48.1	cont with	nin 15 (Fifteen) working days of the receipt of notification of award or ract, the successful bidder shall furnish the performance security, in accordance the Conditions of Contract.
48.2	The	Performance Security $@10\%$ of the supply contract value shall be furnished by successful bidder in one of the following forms:

	a.	Unconditional bank guarantee issued by the reputed Financial Institution in the form provided for in Section VIII, Contract Forms or another form acceptable to the Purchaser; or
	b.	Banker's Cheque/Cash Warrant, or
	c.	Demand Draft.
48.3	If the institution issuing the Performance Security furnished by the Biddoutside the Purchaser's country, the Performance Security shall be counted by a correspondent Financial Institutions located in the Purchaser's country enforceable.	
48.4	shall Bid S evalu Purcl	re by the successful Bidder to submit the above-mentioned Performance Security constitute sufficient grounds for the annulment of the award and forfeiture of the Security. In that event the Purchaser may award the Contract to the next lowest ated Bidder whose offer is substantially responsive and is determined by the naser to be qualified to perform the Contract satisfactorily. Such a failure shall be dered as default and all relevant clauses shall apply.



Section II. Bid Data Sheet (BDS)

	A. Intro	duction	r 2020		
ITB 1.1	The Tender No.: BPC/CMDPO/2020 Materials/2020/01 dated 16 th September, 2020. The Tender Name is: Supply and Delivery of Machineries, tools, testing equipment, spares				
ITB 1.1	The Tender Name is: Supp and consumables.	ly and Delivery of Machineries, loois, lesting equip	ment, spares		
ITB 1.1	The Purchaser is: Central Maintenance Division Project Office, Bhutan Power Corporation Limited, Yarden Lam, Post Box No. 580, Thimphu, Bhutan.				
ITB 1.1	The number and identification	tion of Lots comprising this tender are:			
	Lot No	Description			
	Lot 1	Machineries			
	Lot 2	Tools			
	Lot 3	Testing equipment			
	Lot 3	Spares and Consumables			
ITB 8.2	Attention: The Project Div	urposes only, the Purchaser's address is: vector. ance Division Project Office, Bhutan Power Corpora	ution Limited,		
	Yarden Lam, Post Box No	. 580, Thimphu, Bhutan.			
	Telephone number: +975	2-330684			
Mail address: herukazangpo@bpc.bt copy to: mahendrasubedi@bpc.bt					
		paration of Bids	THIMPH		
ITB 11.1	The language of the Bid is	s: English	1*1		
ITB	The bidders shall submit a	signed Integrity Pact: Yes	Smort		
12.1(h) ITB12.1	The Bidder shall submit w	ith its Bid the following additional documents: None			
<u>(j)</u> ITB 15.1	Alternative Bids "shall no	t be" permitted.	UVV		
ITB 16.5	The Importance adition is:	2010 edition	de and cutaide		
ITB 16.6	The price shall be inclusive	ve of all taxes and duties that are applicable both inside	de and outside		
(a) (i) &	the purchaser's country.	ument Procuremer			
	1 Standard Bidding Doc		1 -1/ 0 - 0		

6.6(b) (i)	The price of the goods quoted shall be DDP (Delivery duty paid), RSD, Gelephu (Place of destination) for all the lots as per incoterm 2010. Notwithstanding any possible misinterpretation/ambiguity in interpretation, it is explicitly clarified that the offered prices shall be all inclusive covering all costs including but not limited to transportation, insurance, taxes and duties and any other costs for delivery of the materials to the Purchaser at the designated place of delivery/destination. Add "The Price quoted shall be inclusive of all the taxes and duties that are payable inside as			
6.6(b)	Add "The Price quoted shall be inclusive of a well as outside purchaser country".	ll the taxes and duties that are payable inside as		
16.6(b)	Final destination (Project Site) if relevant: No			
TB 16.7	The prices quoted by the Bidder "shall not" b	be adjustable.		
ITB 19	Manufacturer's Authorization (MA) "is" requ	ured		
(a)	Lot Description	Remarks		
	Lot 1: Machineries	No		
	Lot 2: Tools	No		
	Lot 3: Testing equipment	No		
	Lot 4: Spares and Consumables	No		
ITB 19 (b)	a) The bid for that item(s)/Lot(s) shall be not submitted for which the Manufacture b) The Bidders are to mention the model, be and submit the Manufacturer's Authorit	No rejected if the Manufacturer's Authorization is er's Authorization is required. rand and origin of goods in the price schedule		
(b)	a) The bid for that item(s)/Lot(s) shall be not submitted for which the Manufacture b) The Bidders are to mention the model, be and submit the Manufacturer's Authorized After sales maintenance, repair, spare parts so and the Bidder therefore "is not" required to	rejected if the Manufacturer's Authorization is er's Authorization is required. Frand and origin of goods in the price schedule zation accordingly. Stocking and related services "are not" required, be represented by a suitably equipped and able "required.		
(b)	a) The bid for that item(s)/Lot(s) shall be not submitted for which the Manufacture b) The Bidders are to mention the model, be and submit the Manufacturer's Authorited After sales maintenance, repair, spare parts so and the Bidder therefore "is not" required to agent in Bhutan.	rejected if the Manufacturer's Authorization is er's Authorization is required. For and and origin of goods in the price schedule zation accordingly. Stocking and related services "are not" required, be represented by a suitably equipped and able		
(b)	a) The bid for that item(s)/Lot(s) shall be not submitted for which the Manufacture b) The Bidders are to mention the model, be and submit the Manufacturer's Authorite After sales maintenance, repair, spare parts so and the Bidder therefore "is not" required to agent in Bhutan. Guaranteed Technical Particulars (GTP) "is a second to the same and the same	rejected if the Manufacturer's Authorization is er's Authorization is required. For and and origin of goods in the price schedule zation accordingly. Itooking and related services "are not" required, be represented by a suitably equipped and able required. Remarks YES (except item no. 6 and 9)		
(b)	a) The bid for that item(s)/Lot(s) shall be not submitted for which the Manufacture b) The Bidders are to mention the model, be and submit the Manufacturer's Authority After sales maintenance, repair, spare parts so and the Bidder therefore "is not" required to agent in Bhutan. Guaranteed Technical Particulars (GTP) "is "Lot Description	rejected if the Manufacturer's Authorization is er's Authorization is required. Formula and origin of goods in the price schedule ration accordingly. Stocking and related services "are not" required, be represented by a suitably equipped and able required. Remarks		

	Lot 4: Spares and Consumables	No	
	a) The minimum technical specification (where ever required) are detailed out under respective lot. Any technical deviation shall be brought out in the GTP forms for the items where GTP forms are provided and for the items where GTP forms are not required, the deviation shall be brought out in the deviation sheet provided. If the deviations are not mentioned in GTP and deviation sheet provided, the specification shall be considered as complied with the requirement.		
	 b) The bid for that item(s)/Lot(s) shall be rejected in Section V, Schedule of Supply where GTP For The bidders are required to duly fill up the document. The catalogue/brochures of the item item. Further, if there are discrepancies betwee offered GTP, then GTP shall prevail. c) For the item(s)/Lot(s) of which GTP forms are 	orms are provided for biaders to full of GTP forms provided in the bide is shall not be considered as GTP of in the item catalogue/brochures and not provided in Section V, Schedu	t up. ding f the l the
	Supply of the bidding document, the bidders at drawings for individual items. The offered it catalogue and deviation brought out in deviation	re requested to submit the catalogu tems shall be clearly indicated in n sheet provided.	ie or
	1. 1 .11 4 eth T		
TB 21.1	The Bid validity period shall be valid till 15th Januar		
21.1 TB	The Bid validity period shall be <i>valid till 13th Janua</i> . The amount and currency of the Bid Security are as		
21.1			
21.1 TB	The amount and currency of the Bid Security are as	follows:	
21.1 TB	The amount and currency of the Bid Security are as Lot Description	follows: Amount (Nu.)	
21.1 TB	The amount and currency of the Bid Security are as Lot Description Lot 1: Machineries	Amount (Nu.) 3,846,950.00	
21.1 TB	The amount and currency of the Bid Security are as Lot Description Lot 1: Machineries Lot 2: Tools	Amount (Nu.) 3,846,950.00 493,570.00	
21.1 TB	The amount and currency of the Bid Security are as Lot Description Lot 1: Machineries Lot 2: Tools Lot 3: Testing equipment Lot 4: Spares and Consumables Preferably Bid Security should be submitted for the would be also accepted. However, if the combined total amount, the offer for the entire quoted lots we ITB 22.4 and not considered for further evaluation.	Amount (Nu.) 3,846,950.00 493,570.00 1,846,252.00 2,671,018.00 e individual lots. Combined Bid Security is not sufficient in term ould be treated as non-responsive as	s per
21.1 TB	Lot Description Lot 1: Machineries Lot 2: Tools Lot 4: Spares and Consumables Preferably Bid Security should be submitted for the would be also accepted. However, if the combined total amount, the offer for the entire quoted lots we	Amount (Nu.) 3,846,950.00 493,570.00 1,846,252.00 2,671,018.00 e individual lots. Combined Bid Security is not sufficient in term ould be treated as non-responsive as	s per
TB 22.1 TB 22.1	The amount and currency of the Bid Security are as Lot Description Lot 1: Machineries Lot 2: Tools Lot 3: Testing equipment Lot 4: Spares and Consumables Preferably Bid Security should be submitted for the would be also accepted. However, if the combined total amount, the offer for the entire quoted lots we ITB 22.4 and not considered for further evaluation.	Amount (Nu.) 3,846,950.00 493,570.00 1,846,252.00 2,671,018.00 e individual lots. Combined Bid Security is not sufficient in termould be treated as non-responsive as 114th February, 2021.	ns of

and 24.1	
ITB 24.3	The identification of this bidding process is: BPC/CMDPO/2020 Equipment/2020/01 dated
(d)	15th September, 2020.
ITB	For <u>Bid submission purposes</u> only, the Purchaser's address is:
25.1	Attention: The Project Director
	Address: Central Maintenance Division Project Office, Bhutan Power Corporation Limited, Yarden Lam, Post Box No. 580, Thimphu, Bhutan.
ITB	The deadline for Bid submission is:
25.1	Date:15 th October, 2020 Time: 13:00 hours
ITB	The Bid opening shall take place at:
29.1	Address: BPC Conference Hall, Bhutan Power Corporation Limited, Yarden Lam, Post Box No. 580, Thimphu, Bhutan.
	Date: 15th October, 2020.
	Time: 14:30 hours
	E. Evaluation and Comparison of Bids Bid prices expressed in different currencies shall be converted into Ngultrum (BTN).
ITB	
37.1	The source of exchange rates shall be as published by the Royal Monetary Authority of Bhutan.
	The date for the exchange rates shall be the date of Bid Opening, as prescribed in ITB 29.1 and the exchange rate shall be TT selling rate.
ITB 38.1	A margin of five percent (5%) Domestic Preference "shall not" apply.
1110 30.1	Bids will be evaluated as follows:
ITB 39.3 (a)	Bid evaluation shall be done on items wise basis.
27.2 (u)	Actual order shall however be done based on the lowest rate that has been quoted in that bid for
ITB 39.3 (e)	that items. The adjustments shall be determined using the following criteria from amongst those set out in Section III, Evaluation and Qualification Criteria:
(-)	(a) Deviation in Delivery schedule: Yes. [Clause 2.2 of Evaluation Criteria (ITB 39.3 (e)]
	(b) Deviation in payment schedule: No [Clause 2.3 of Evaluation Criteria (ITB 39.3 (e)]
	(c) The cost of major replacement components, mandatory spare parts, and service: No. The cost of spare components, mandatory spares and services if submitted by the Bidder shall not be taken into consideration during the evaluation.
	(d) The availability in Bhutan of spare parts and after-sales services for the equipment offered in the Bid: <i>No</i>

	(e) The projected operating and maintenance costs during the life of the equipment: No.
	(f) The performance and productivity of the equipment offered: Yes. The performance warranty period for the equipment offered will be 12 months from the date of receipt at the place of destination.
ITB	Bidders "shall not" be allowed to quote separate prices for one or more items/lots. [refer to
39.6	Section III, Evaluation and Qualification Criteria for the evaluation methodology, if appropriate]
	F. Award of Contract
ITB 45.1	The maximum percentage by which quantities may be increased is 20% percentage of the contract value. The maximum percentage by which quantities may be decreased is 20% percentage of the contract value.
ITB	The signing of Contract Agreement will take place at:
47.1	Address: Central Maintenance Division Project Office, BPC, Yarden Lam, Post Box No. 580, Thimphu, Bhutan.
ITB 47.2	The letter of acceptance must be accepted on or before: 10 (ten) days after the notification of award.



Section III. Evaluation and Qualification Criteria

Table of Contents

(ITD 20)	2
Domestic Preference (ITB 38)	
Evaluation Criteria (ITB 39.3 (e))	
Multiple Contracts (ITB 39.6)	
Postqualification Requirements (ITB 41.2)	3



		Domestic Preference (ITB 38)
1.1	prefere	Bidding Data Sheet (BDS) so specifies, in comparing Bids, a margin of nce will be granted to Goods of Bhutanese Origin.
1.2	For applinto the	plication of domestic preference, all responsive Bids will first be classified following three categories:
	a.	Category I: Goods shall be considered to be of Bhutanese Origin based on the percentage of value addition as prescribed by the Ministry of Economic Affairs, Bhutan;
	b.	Category II: All other bids offering Goods manufactured in Bhutan;
	c.	Category III: Bids offering Goods manufactured outside Bhutan that have been already imported or that will be imported.
1.3	lowest other a the lov	first step, all evaluated bids in each group shall be compared to determine the bid in each group. Such lowest evaluated bids shall be compared with each and if, as a result of this comparison, a bid from Category I or Category II is west, it shall be selected for the award.
1.4	Catego (5%) p bidder	a result of preceding comparison, the lowest evaluated bid is a bid from bry III, for the purpose of further comparison only, an upward five percent price adjustment will be made to the CIF/CIP/DDP bid prices of Category III s. The lowest evaluated bid determined from this last comparison shall be defor the award.
1.5	Bidder that th	es applying for the preference shall provide all supporting documents to prove e Goods offered by them are from Category I and Category II respectively.
		Evaluation Criteria (ITB 39.3 (e))
	noo with IT	aluation of a Bid may take into account, in addition to the Bid Price quoted in B 16.6, one or more of the following factors as specified in ITB 39.3(e) and in o ITB 39.3(e), using the following criteria and methodologies.
2.1	Brand	Name Name Strategic Critical Items Strate
	sku'reduce servic	has adopted the policy of restricting certain Strategic Critical Items (SCris) as per the provision of the BPC Procurement Manual to ensure high quality, a inventory and to sustain long-term smooth operation and maintenance es. Bidders must ensure that for these lots, only the listed brand names are d and effort must be made to source this equipment directly from the facturers and or their authorized dealers. Preferred Brands/Restricted Brands

2 2	Dalivan	v Schedule	(as per Incoterms specified in BDS)
2.2	The Go specified completed Bids shadone (ods are red in the Section. Bids all be adjust 1) per cent delivery so	equired to be delivered in accordance with and completed as ection V, Schedule of Supply. No credit will be given to earlier offering late delivery schedules (LDS) will be accepted but the red for the purpose of the bid evaluation only adding at the rate of of the bid price for each week of delay to the bid price. Bids chedules beyond 1 (one) month of the date specified in Section V, a shall be rejected.
2.2	Adingto	nent for De	viations from the Terms of Payments
2.3	Deviation not be p	on from tor	ms of payment as specified in special condition of contract shall all bids deviating from specified terms of payment will be treated
2.4	Contrac	ctual and Co	ommercial Deviations
	The co	est of all questions of the of	uantifiable deviations and omissions from the contractual and tions shall be evaluated. The Purchaser will make its own cost of any deviations for the purpose of ensuring fair comparison
			3. Multiple Contracts (ITB 39.6)
3.1	evaluat qualific	ad combin	all award multiple contracts to the Bidder that offers the lowest ation of Bids (one contract per Bid) and meets the post ria (this Section III, Sub-Section ITB 39.2, Post qualification
3.2		rchaser sha	11:
	a.	Evalua lot and	tte only items/lots that include at least the percentages of items per quantity per item as specified in ITB 16.8.
	b.	Take i	nto 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.
		4. Pos	t qualification Requirements (ITB 41.2)

accorda include qualific	ance with ITB 41, using only the requirements specified. Requirements not and in the text below shall not be used in the evaluation of the Bidder's cations.
a.	Financial Capability
	The Bidder shall furnish documentary evidence that it meets the following financial requirement(s): <i>Not Applicable</i> .
b.	Experience and Technical Capacity The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s): ISO Certificate; list of previous clients, relevant catalogues, test certificates, list of past performance certificates and manufacturer's profile for all new brands that are introduced in BPC.
c.	The Bidder shall furnish documentary evidence to demonstrate that the Goods it offers meet the following usage requirement(s): <i>Not Applicable</i>



PART 2- Supply Requirement



Section V- Schedule of Supply

Section V. Schedule of Supply

Table of Contents

1. Delivery and Completion Schedule	3
2 Technical Specifications	4



28.	Modification,	Substitution and withdrawal of Bids
28.1	The bidder ma written notice representative, The correspond	y modify or substitute its Bid after it has been submitted by sending a in accordance with the ITB 24, duly signed by an authorized and shall include a copy of authorization in accordance with ITB 23.2. ding substitution or modification of the Bid must accompany the en notice. All notices must be:
	a.	Submitted in accordance with ITB 23 and 24, and in addition, the respective envelops shall be clearly marked "SUBSTITUTION" or "MODIFICATION;" and
	b.	Received by the Purchaser prior to the deadline prescribed for the submission of Bids, in accordance with ITB 25.
28.2	notice prior to ITB 25, duly	withdraw its Bid after it has been submitted by sending a written the deadline prescribed for the submission of Bids, in accordance with signed by an authorized representative, and shall include a copy of a accordance with ITB 23.2.
	The Purchaser	then shall mark the envelope as "WITHDRAWN".
28.3	for submission	e modified, substituted or withdrawn in the interval between the deadline of Bids and the expiration of the period of bid validity specified by the Bid Form or any extension thereof, neither any modification shall be
29.	Bid Opening	
29.1	The Purchaser shall conduct the bid opening in the place at the address, date and time specified in the BDS in the presence of bidders or bidders' authorized representatives who choose to attend.	
29.2	The bidder's authorized representatives attending the bid opening shall have an Authorization Letter from the bidder. Only the authorized representative shall attend the bid opening.	
29.3	The bidders or bidder's authorized representatives shall not be permitted to approach the members of the Bid Opening Committee or any of the officials.	
29.4	in the state of th	
29.5	to the Bidder. out and excha shall not be	Next, envelopes marked "SUBSTITUTION" shall be opened and read nged with the corresponding Bid being substituted. The substituted Bid opened, but shall be returned to the Bidder. Envelopes marked TION" shall be opened and read out with the corresponding Bid. Only are opened, read out and recorded at Bid Opening shall be considered.

29.6	record (per l Secur Only consider in acc	ther envelopes shall be opened one at a time, and the following read out and ded: the name of the Bidder and whether there is a modification; the Bid Prices lot if applicable), any discounts and alternative offers; the presence of a Bid ity, if required; and any other details as the Purchaser may consider appropriate. discounts and alternative offers read out and recorded at bid opening shall be dered for evaluation. No Bid shall be rejected at bid opening except for late bids, cordance with ITB 27.1.
29.7	inforr	Purchaser shall prepare a record of the Bid Opening, which shall include the mation disclosed to those present in accordance with ITB 29.6. The minutes shall de, as a minimum:
	a.	The Tender Number and Description;
	b.	The name of the Bidder, Bid number and whether there is a withdrawal, substitution or modification;
	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 names of Bidders at the Bid Opening, and of the Bidders authorized representatives (if any);
	h.	Details of any feedbacks or other comments made by Bidders/Bidders authorized representatives attending the Bid Opening, including the names and signatures of the Bidders/Bidders authorized representatives making the feedback(s) and/or comment(s); and
	i.	The names, designations and signatures of the members of the Bid Opening Committee.
	The	Bidders/Bidders authorized representatives who are present shall sign the record. omission of a Bidders/Bidders authorized representative's signature on the record not invalidate the contents and effect of the record.

E. Evaluation and Comparison of Bids

30.	Confidentiality
30.1	Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process.

30.2	Any effort by a Bidder to influence the Purchaser's processing of Bids or award decisions may result in the rejection of the bidder's Bid.		
31.	Clarifi	ication of Bids	
31.1	To assist in the examination, evaluation and comparison of Bids, the Purchaser may, at its discretion, ask the bidder for a clarification of its Bid. Any clarification submitted by a Bidder with regard to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's requests for clarification and the response shall be in writing. No change in the price or substances 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 34.		
32.	Deviat	tions, Reservations, and Omissions	
32.1	Durin	ng the evaluation of bids, the following definitions shall apply:	
	a.	"Deviation" is a departure from the requirements specified in the Bidding Document. Any comments, remarks, observations and feedbacks will constitute as deviation and shall be indicated in the deviation sheet;	
	b.	"Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and	
	c.	"Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.	
33.	Respo	onsiveness of Bids	
33.1	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.		
33.2	specifi	stantially responsive Bid is one that conforms to all the terms, conditions and cations of the Bidding Documents without material deviation, reservation or on. A material deviation, reservation or omission is one that:	
	a.	Effects in any substantial way the scope, quality or performance of the supplies; or	
	b.	Limits or is inconsistent with the bidding documents in a substantial way. The Purchaser's rights or the bidder's obligations under the Contract; or	
	c.	Whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.	

33.3	by the	d is not substantially responsive to the Bidding Documents, it shall be rejected Purchaser and may not subsequently be made responsive by the bidder by ion of the material deviation, reservation or omission.	
34.	Nonconformities, Errors and Omissions		
34.1	Provid confor	ed that a Bid is substantially responsive, the Purchaser may waive any non-mities or omissions in the Bid that do not constitute a material deviation.	
34.2	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 nonmaterial nonconformities 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.		
34.3	Provid arithm	ed that the Bid is substantially responsive, the Purchaser shall correct etical errors on the following basis:	
	a.	If there is a discrepancy between the unit price and the total price per item that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price per item will 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 total price as quoted shall govern and the unit price shall be corrected.	
	b.	If there is a discrepancy between the Total Amount and the sum of the Total price per item, the sum of the total price per item shall prevail and the Total Amount will be corrected.	
34.4	If the Bidder that submitted the lowest evaluated Bid does not accept the correction errors, its Bid shall be disqualified and its Bid Security shall be forfeited.		
35.	Preli	ninary Examination of Bids	
35.2	info	Purchaser shall examine and confirm that the following documents and mation have been provided in the Bid. If any of these documents or information issing, the Bid shall be rejected.	
	a.	Bid Form, in accordance with ITB 12.1 (a);	
	b.	Price Schedules, in accordance with ITB 12.1 (a);	
	c.	Bid Security, in accordance with ITB 22.	
36.	Exan	nination of Terms and Conditions; Technical Evaluation	
	The Purchaser shall examine the Bid to confirm that all terms and conditions		

	specific	ed in the GCC and the SCC have been accepted by the Bidder without any
		al deviation or reservation.
36.2	The Purchaser shall evaluate the technical features of the Bid submitted in accordance with ITB 20, to confirm that all requirements specified in Section V, Schedule of Supply of the Bidding Documents have been met without any material deviation or reservation.	
36.3	Purcha	er the examination of the terms and conditions and the technical evaluation, the aser determines that the Bid is not substantially responsive in accordance with 3, the Bid shall be rejected.
36.4	No conditional offer(s) shall be allowed. A bid with conditional offers shall be rejected	
37.	Conve	rsion to Single Currency
37.1	For evaluation and comparison purposes, the Purchaser shall convert all bid prices, expressed in amounts in various currencies into a single currency and use the exchange rates specified in the BDS.	
38.	Margii	n of Preference
38.1	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.	
	value	addition certificate from the Ministry of Economic Affairs.
39.	value	addition certificate from the Ministry of Economic Affairs. Evaluation of Bids
39. 39.1	Detail The P	addition certificate from the Ministry of Economic Affairs. Evaluation of Bids
	Detail The P evalua	Evaluation of Bids Purchaser shall evaluate each Bid that has been determined, up to this stage of ation, to be substantially responsive.
39.1	The P evalua To ev criteri	Evaluation of Bids Furchaser shall evaluate each Bid that has been determined, up to this stage of action, to be substantially responsive. Figure a Bid the Purchaser shall only use all the factors, methodologies and
39.1	The P evalua To ev criteri	Evaluation of Bids Purchaser shall evaluate each Bid that has been determined, up to this stage of ation, to be substantially responsive. Paluate a Bid, the Purchaser shall only use all the factors, methodologies and a defined in this ITB 39. No other criteria or methodology shall be permitted. aluate a Bid, the Purchaser shall consider the following: Evaluation shall be done for Items or Lots, as specified in the BDS;
39.1	The P evaluation of the evalua	Evaluation of Bids Purchaser shall evaluate each Bid that has been determined, up to this stage of ation, to be substantially responsive. Faluate a Bid, the Purchaser shall only use all the factors, methodologies and a defined in this ITB 39. No other criteria or methodology shall be permitted. Faluate a Bid, the Purchaser shall consider the following: Evaluation shall be done for Items or Lots, as specified in the BDS; The Bid Price, as quoted in accordance with ITB Clause 16;
39.1	The P evaluation of the reverse of t	Evaluation of Bids Purchaser shall evaluate each Bid that has been determined, up to this stage of ation, to be substantially responsive. Faluate a Bid, the Purchaser shall only use all the factors, methodologies and a defined in this ITB 39. No other criteria or methodology shall be permitted. Evaluate a Bid, the Purchaser shall consider the following: Evaluation shall be done for Items or Lots, as specified in the BDS; The Bid Price, as quoted in accordance with ITB Clause 16; Price adjustment for correction of arithmetic errors in accordance with ITB 34.3;
39.1	The P evaluation of the evalua	Evaluation of Bids Furchaser shall evaluate each Bid that has been determined, up to this stage of ation, to be substantially responsive. Faluate a Bid, the Purchaser shall only use all the factors, methodologies and a defined in this ITB 39. No other criteria or methodology shall be permitted. Faluate a Bid, the Purchaser shall consider the following: Evaluation shall be done for Items or Lots, as specified in the BDS; The Bid Price, as quoted in accordance with ITB Clause 16; Price adjustment for correction of arithmetic errors in accordance with ITB.

	f. Adjustments due to the application of a margin of preference, in accordance with ITB Clause 38, if applicable.	
39.4	The Purchaser's evaluation of a Bid shall exclude and not take into account any allowance for price adjustment during the period of execution of the contract, if provided in the bid.	
39.5	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 16. 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 39.3 (e).	
39.6	If so specified in BDS, Goods are grouped in two or more lots, the Purchaser will evaluate Bids on the basis of LOT WISE or a combination of Lots and the Purchaser shall award one or multiple lots to more than one Bidder.	
40.	Comparison of Bids	
40.1	The Purchaser shall compare all substantially responsive Bids to determine the lowest evaluated Bid, in accordance with ITB 39.	
40.2	If the Bid price of the lowest evaluated Bid appears abnormally low, high and/or seriously unbalanced price as compared to other Bidders or past rates, then the Purchaser may require the Bidder to produce written explanations of, justifications and detailed price analyses for any or all items offered. Such explanations may include, but are not limited to, details of the method by which the Goods and Related Services are to be provided, the technical solutions chosen, exceptionally favourable conditions available to the Bidder for the execution of the Contract, and the originality of the Goods proposed by the Bidder. After objective evaluation of the explanations, justifications and price analyses, if the Purchaser decides to accept the Bid with an abnormally low and/or seriously unbalanced price, the Purchaser shall require that the amount of the Performance Security stipulated in ITB 48 be increased at the expense of the Bidder to a level sufficient to protect the Purchaser against financial loss in the event of default of the successful Bidder under the Contract.	
41.	Post qualification of the Bidder	
41.1	The Purchaser will determine to its satisfaction whether the bidder selected as having submitted the lowest-evaluated and substantially responsive Bid is qualified to satisfactorily perform the Contract.	
41.2	The Purchaser will determine the reasonability of the Bid Prices based on the past purchase rate and the prevailing market rate during the evaluation.	
41.3	The determination based upon an examination of the documentary evidence of the bidder's qualifications submitted by the bidder, pursuant to ITB 19, as well as such	

10/1 Telescope			
	other information as the Purchaser deems necessary and appropriate.		
41.4	If required, the Purchase may carry out the inspections of the Bidder's factories to assess the production, technical, financial, and manpower capacity of the Bidder to perform the Contract. The Purchaser shall notify in advance of the date in writing on which the inspection will be made. If the Bidder does not meet the required capacity as assessed by the inspection team, the bid shall be rejected		
41.5	An affirmative determination shall be a prerequisite for award of the Contract to the bidder. A negative determination will result in rejection of the bidder's Bid, in which event the Purchaser shall proceed to the next lowest evaluated Bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.		
42.	Contacting the Purchaser		
42.1	Subject to ITB 31, no bidder shall contact the Purchaser on any matter relating to its Bid, from the time of bid opening to the time the Contract is awarded.		
42.2	Any effort by a Bidder to influence the Purchaser in the Purchaser's decisions in respect of bid evaluation, bid comparison or Contract awards will result in the rejection of the bidder's Bid.		
43.	Purchaser's Right to Accept Any Bid and to Reject Any or All Bids		
43.1	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 award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the ground for the Purchaser's action.		
	F. Award of Contract		
44.	Award Criteria		
44.1	The Purchaser will award the Contract to the successful bidder whose Bid has been determined to be the lowest-evaluated responsive Bid, provided further that the bidder is determined to be qualified to satisfactorily perform the Contract.		
45.	Purchasers Right to Vary Quantities at Time of Award		
45.1	At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services specified in Section V, 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.		
46.	Notification of Award		
46.1	The Purchaser will notify the successful bidder in writing that its Bid has been accepted.		

16.2	Until a formal Contract is prepared and executed, the notification of award shall be binding on the Supplier.			
47.	Signin	g of Contract		
47.1	contra	n 15 (Fifteen) days from the date of issue of the notification of award of act, the successful bidder are required to come and sign, date and seal the act agreement at the office as specified in BDS.		
47.2	Where	e the contract is not signed by both parties simultaneously:		
	a.	The Purchaser shall send to the successful bidder two original copies of (1) the full agreed contract and (2) the letter of acceptance, each copy to be signed by the bidder or its duly authorized representative, together with the date of signature;		
	b.	The letter of acceptance shall indicate the deadline by which it must be accepted as specified in BDS;		
	c.	The successful bidder, if agrees to conclude the contract, must sign and date all original copies of the contract and letter of acceptance and return one copy of each to the Purchaser before the expiry of the deadline indicated in the letter of acceptance;		
	d.	Failure of the successful bidder to accept the award/ sign the contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.		
47.3	preve use of restri prod prov Purc of d	withstanding ITB 47.1 above, in case signing of the Contract Agreement is ented by any export restrictions attributable to the Purchaser, to Bhutan, or to the of the products/Goods, systems or services to be supplied, where such export actions arise from trade regulations from a country supplying those sucts/Goods, systems or services, the Bidder shall not be bound by its Bid, always ided, however, that the Bidder can demonstrate to the satisfaction of the haser that signing of the Contact Agreement has not been prevented by any lack iligence on the part of the Bidder in completing any formalities, including the ying for permits, authorizations and/or licenses necessary for the export of the sucts/Goods, systems or services under the terms of the Contract.		
48.	Performance Security			
48.1	cont with	nin 15 (Fifteen) working days of the receipt of notification of award or ract, the successful bidder shall furnish the performance security, in accordance the Conditions of Contract.		
48.2	The	Performance Security $@10\%$ of the supply contract value shall be furnished by successful bidder in one of the following forms:		

	a.	Unconditional bank guarantee issued by the reputed Financial Institution in the form provided for in Section VIII, Contract Forms or another form acceptable to the Purchaser; or
	b.	Banker's Cheque/Cash Warrant, or
	c.	Demand Draft.
48.3	If the institution issuing the Performance Security furnished by the Bidder is outside the Purchaser's country, the Performance Security shall be counter guar by a correspondent Financial Institutions located in the Purchaser's country to enforceable.	
48.4	shall Bid S evalu Purcl	re by the successful Bidder to submit the above-mentioned Performance Security constitute sufficient grounds for the annulment of the award and forfeiture of the Security. In that event the Purchaser may award the Contract to the next lowest ated Bidder whose offer is substantially responsive and is determined by the naser to be qualified to perform the Contract satisfactorily. Such a failure shall be dered as default and all relevant clauses shall apply.



Section II. Bid Data Sheet (BDS)

	A. Intro	duction	2020		
ITB 1.1	The Tender No. : <i>BPC/CM</i>	DPO/2020 Materials/2020/01 dated 16th September,	2020.		
ITB 1.1	The Tender Name is: Supple and consumables.	ly and Delivery of Machineries, tools, testing equipn	nem, spares		
ITB 1.1	The Purchaser is: Central Maintenance Division Project Office, Bhutan Power Corporation Limited, Yarden Lam, Post Box No. 580, Thimphu, Bhutan.				
ITB 1.1	The number and identificat	tion of Lots comprising this tender are:			
	Lot No	Description			
	Lot 1	Machineries			
	Lot 2	Tools			
	Lot 3	Testing equipment			
	Lot 3	Spares and Consumables			
		Documents			
ITB 8.2	For <u>clarification of Bid product</u> Attention: <i>The Project Dir</i> Address: <i>Central Maintena</i>	urposes only, the Purchaser's address is: rector. ance Division Project Office, Bhutan Power Corporati	ion Limited,		
ITB 8.2	For <u>clarification of Bid product</u> Attention: The Project Dir Address: Central Maintena Yarden Lam, Post Box No.	urposes only, the Purchaser's address is: rector. ance Division Project Office, Bhutan Power Corporati 580, Thimphu, Bhutan.	ion Limited,		
ITB 8.2	For clarification of Bid put Attention: The Project Dir Address: Central Maintene Yarden Lam, Post Box No. Telephone number: +975-	urposes only, the Purchaser's address is: rector. ance Division Project Office, Bhutan Power Corporati 580, Thimphu, Bhutan. 2-330684	ion Limited,		
ITB 8.2	For <u>clarification of Bid product</u> Attention: The Project Dir Address: Central Maintena Yarden Lam, Post Box No.	urposes only, the Purchaser's address is: ector. ance Division Project Office, Bhutan Power Corporati 580, Thimphu, Bhutan. 2-330684 gpo@bpc.bt	ion Limited,		
ITB 8.2	For clarification of Bid put Attention: The Project Dir Address: Central Maintener Yarden Lam, Post Box No. Telephone number: +975- Mail address: herukazang copy to: mahendrasu C. Pre	urposes only, the Purchaser's address is: rector. ance Division Project Office, Bhutan Power Corporati 580, Thimphu, Bhutan. 2-330684 apo@bpc.bt bedi@bpc.bt	E STORES		
ITB 8.2	For clarification of Bid put Attention: The Project Dir Address: Central Maintene Yarden Lam, Post Box No. Telephone number: +975- Mail address: herukazang copy to: mahendrasu C. Pre	urposes only, the Purchaser's address is: rector. ance Division Project Office, Bhutan Power Corporation, 580, Thimphu, Bhutan. 2-330684 gpo@bpc.bt bedi@bpc.bt reparation of Bids	THIMPH		
ITB 11.1	For clarification of Bid put Attention: The Project Dir Address: Central Maintene Yarden Lam, Post Box No. Telephone number: +975- Mail address: herukazang copy to: mahendrasu C. Pre	urposes only, the Purchaser's address is: rector. ance Division Project Office, Bhutan Power Corporati 580, Thimphu, Bhutan. 2-330684 apo@bpc.bt bedi@bpc.bt	THIMPH		
ITB 11.1 ITB 12.1(h) ITB12.1	For clarification of Bid put Attention: The Project Dir Address: Central Maintent Yarden Lam, Post Box No. Telephone number: +975- Mail address: herukazang copy to: mahendrasu C. Pre The language of the Bid is The bidders shall submit a	urposes only, the Purchaser's address is: rector. ance Division Project Office, Bhutan Power Corporation, 580, Thimphu, Bhutan. 2-330684 gpo@bpc.bt bedi@bpc.bt reparation of Bids	E STORES		
ITB 11.1 ITB 12.1(h) ITB12.1 (j)	For clarification of Bid pure Attention: The Project Dir Address: Central Maintent Yarden Lam, Post Box No. Telephone number: +975-Mail address: herukazang copy to: mahendrasu C. Pre The language of the Bid is The bidders shall submit at the Bidder shall submit were asserted.	urposes only, the Purchaser's address is: rector. ance Division Project Office, Bhutan Power Corporati 580, Thimphu, Bhutan. 2-330684 gpo@bpc.bt bedi@bpc.bt reparation of Bids s: English a signed Integrity Pact: Yes with its Bid the following additional documents: None	THIMPH		
ITB 11.1 ITB 12.1(h) ITB12.1 (j) ITB 15.1	For clarification of Bid put Attention: The Project Dir Address: Central Maintent Yarden Lam, Post Box No. Telephone number: +975- Mail address: herukazang copy to: mahendrasu C. Pre The language of the Bid is The bidders shall submit at Alternative Bids "shall no	urposes only, the Purchaser's address is: rector. ance Division Project Office, Bhutan Power Corporation 580, Thimphu, Bhutan. 2-330684 gpo@bpc.bt bedi@bpc.bt reparation of Bids s: English a signed Integrity Pact: Yes with its Bid the following additional documents: None of be" permitted.	CMOTO X		
ITB 11.1 ITB 12.1(h) ITB12.1 (j) ITB 15.1 ITB 16.5	For clarification of Bid put Attention: The Project Dir Address: Central Maintent Yarden Lam, Post Box No. Telephone number: +975- Mail address: herukazang copy to: mahendrasu C. Pre The language of the Bid is The bidders shall submit at Alternative Bids "shall no	urposes only, the Purchaser's address is: rector. ance Division Project Office, Bhutan Power Corporation 580, Thimphu, Bhutan. 2-330684 gpo@bpc.bt bedi@bpc.bt reparation of Bids s: English a signed Integrity Pact: Yes with its Bid the following additional documents: None of be" permitted.	CMOTO X		
ITB 11.1 ITB 12.1(h) ITB12.1 (j) ITB 15.1	For clarification of Bid put Attention: The Project Dir Address: Central Maintent Yarden Lam, Post Box No. Telephone number: +975- Mail address: herukazang copy to: mahendrasu C. Pre The language of the Bid is The bidders shall submit at Alternative Bids "shall no	urposes only, the Purchaser's address is: rector. ance Division Project Office, Bhutan Power Corporation 1580, Thimphu, Bhutan. 2-330684 gpo@bpc.bt bedi@bpc.bt reparation of Bids s: English a signed Integrity Pact: Yes with its Bid the following additional documents: None at be" permitted.	e and outside		

6.6(b) (i)	The price of the goods quoted shall be DDP (Delivery duty paid), RSD, Gelephu (Place of destination) for all the lots as per incoterm 2010. Notwithstanding any possible misinterpretation/ambiguity in interpretation, it is explicitly clarified that the offered prices shall be all inclusive covering all costs including but not limited to transportation, insurance, taxes and duties and any other costs for delivery of the materials to the Purchaser at the designated place of delivery/destination. Add "The Price quoted shall be inclusive of all the taxes and duties that are payable inside as					
6.6(b)	Add "The Price quoted shall be inclusive of a well as outside purchaser country".	all the taxes and duties that are payable inside as				
16.6(b)	Final destination (Project Site) if relevant: No					
TB 16.7	The prices quoted by the Bidder "shall not"	be adjustable.				
ITB 19	Manufacturer's Authorization (MA) "is" req	uired				
(a)	Lot Description	Remarks				
	Lot 1: Machineries	No				
	Lot 2: Tools	No				
	Lot 3: Testing equipment	No				
	Lot 4: Spares and Consumables	No				
ITB 19 (b)	a) The bid for that item(s)/Lot(s) shall be not submitted for which the Manufacture) b) The Bidders are to mention the model, and submit the Manufacturer's Author.	No rejected if the Manufacturer's Authorization is rer's Authorization is required. brand and origin of goods in the price schedule				
(b)	a) The bid for that item(s)/Lot(s) shall be not submitted for which the Manufacture) b) The Bidders are to mention the model, and submit the Manufacturer's Author. After sales maintenance, repair, spare parts and the Bidder therefore "is not" required to	rejected if the Manufacturer's Authorization is rer's Authorization is required. brand and origin of goods in the price schedule ization accordingly. stocking and related services "are not" required, to be represented by a suitably equipped and able of the price schedule.				
(b)	a) The bid for that item(s)/Lot(s) shall be not submitted for which the Manufacture) b) The Bidders are to mention the model, and submit the Manufacturer's Author. After sales maintenance, repair, spare parts and the Bidder therefore "is not" required to agent in Bhutan.	rejected if the Manufacturer's Authorization is rer's Authorization is required. brand and origin of goods in the price schedule ization accordingly. stocking and related services "are not" required, o be represented by a suitably equipped and able				
(b)	a) The bid for that item(s)/Lot(s) shall be not submitted for which the Manufacture) b) The Bidders are to mention the model, and submit the Manufacturer's Author. After sales maintenance, repair, spare parts and the Bidder therefore "is not" required to agent in Bhutan. Guaranteed Technical Particulars (GTP) "is	rejected if the Manufacturer's Authorization is rer's Authorization is required. brand and origin of goods in the price schedule ization accordingly. stocking and related services "are not" required, o be represented by a suitably equipped and able "required. Remarks YES (except item no. 6 and 9)				
(b)	a) The bid for that item(s)/Lot(s) shall be not submitted for which the Manufacture) b) The Bidders are to mention the model, and submit the Manufacturer's Author After sales maintenance, repair, spare parts and the Bidder therefore "is not" required to agent in Bhutan. Guaranteed Technical Particulars (GTP) "is Lot Description	rejected if the Manufacturer's Authorization is rer's Authorization is required. brand and origin of goods in the price schedule ization accordingly. stocking and related services "are not" required, o be represented by a suitably equipped and able "required. Remarks				

	Lot 4: Spares and Consumables	No					
	a) The minimum technical specification (where ever required) are detailed out under respective lot. Any technical deviation shall be brought out in the GTP forms for the items where GTP forms are provided and for the items where GTP forms are not required, the deviation shall be brought out in the deviation sheet provided. If the deviations are not mentioned in GTP and deviation sheet provided, the specification shall be considered as complied with the requirement.						
	 b) The bid for that item(s)/Lot(s) shall be reject in Section V, Schedule of Supply where GTF The bidders are required to duly fill up document. The catalogue/brochures of the it item. Further, if there are discrepancies betwoffered GTP, then GTP shall prevail. c) For the item(s)/Lot(s) of which GTP forms a Supply of the bidding document, the bidders drawings for individual items. The offered catalogue and deviation brought out in deviation 	P Forms are provided for bidders to the GTP forms provided in the le ems shall not be considered as GTI ween the item catalogue/brochures of the not provided in Section V, Sche is are requested to submit the catalog to items shall be clearly indicated	fill up. bidding P of the and the edule of ogue or				
ITB 21.1	The Bid validity period shall be valid till 15th Jan	uary, 2021.					
ITB 22.1	The amount and currency of the Bid Security are as follows:						
	Lot Description	Amount (Nu.)	111111111111111111111111111111111111111				
	Lot 1: Machineries	76,939.00					
	Lot 2: Tools	9,871.40					
	Lot 3: Testing equipment	36,925.04					
	Lot 4: Spares and Consumables	53,420.36					
	Preferably Bid Security should be submitted for the individual lots. Combined Bid Security would be also accepted. However, if the combined Bid Security is not sufficient in terms of total amount, the offer for the entire quoted lots would be treated as non-responsive as per ITB 22.4 and not considered for further evaluation.						
ITB	The Bid Security validity period shall be valid to	ill 14 th February, 2021.	1				
22.3		Centr	a major				
ITD 22	D. Submission and Opening of	f Bids	MA				
11 B 23.	.1 In addition to the original of the Bid, the number of	of copies is: One copy.	1 H				

Procurement

and 24.1	
ITB 24.3	The identification of this bidding process is: BPC/CMDPO/2020 Equipment/2020/01 dated
(d)	15th September, 2020.
ITB	For <u>Bid submission purposes</u> only, the Purchaser's address is:
25.1	Attention: The Project Director
	Address: Central Maintenance Division Project Office, Bhutan Power Corporation Limited, Yarden Lam, Post Box No. 580, Thimphu, Bhutan.
ITB 25.1	The deadline for Bid submission is:
23.1	Date:15 th October, 2020 Time: 13:00 hours
ITB	The Bid opening shall take place at:
29.1	Address: BPC Conference Hall, Bhutan Power Corporation Limited, Yarden Lam, Post Box No. 580, Thimphu, Bhutan.
	Date: 15th October, 2020.
	Time: 14:30 hours
	E. Evaluation and Comparison of Bids
ITB	Bid prices expressed in different currencies shall be converted into Ngultrum (BTN).
37.1	The source of exchange rates shall be as published by the Royal Monetary Authority of Bhutan.
	The date for the exchange rates shall be the date of Bid Opening, as prescribed in ITB 29.1 and the exchange rate shall be TT selling rate.
ITB 38.1	A margin of five percent (5%) Domestic Preference "shall not" apply.
110 30.1	Bids will be evaluated as follows:
ITB 39.3 (a)	Bid evaluation shall be done on items wise basis.
27.2 (u)	Actual order shall however be done based on the lowest rate that has been quoted in that bid for that items.
ITB 39.3 (e)	The adjustments shall be determined using the following criteria from amongst those set out in Section III, Evaluation and Qualification Criteria:
	(a) Deviation in Delivery schedule: Yes. [Clause 2.2 of Evaluation Criteria (ITB 39.3 (e)]
	(b) Deviation in payment schedule: No [Clause 2.3 of Evaluation Criteria (ITB 39.3 (e)]
	(c) The cost of major replacement components, mandatory spare parts, and service: No. The cost of spare components, mandatory spares and services if submitted by the Bidder shall not be taken into consideration during the evaluation.
	(d) The availability in Bhutan of spare parts and after-sales services for the equipment offered in the Bid: No

	(e) The projected operating and maintenance costs during the life of the equipment: No.
	(f) The performance and productivity of the equipment offered: Yes. The performance warranty period for the equipment offered will be 12 months from the date of receipt at the place of destination.
ITB	Bidders "shall not" be allowed to quote separate prices for one or more items/lots. [refer to
39.6	Section III, Evaluation and Qualification Criteria for the evaluation methodology, if appropriate]
	F. Award of Contract
ITB 45.1	The maximum percentage by which quantities may be increased is 20% percentage of the contract value. The maximum percentage by which quantities may be decreased is 20% percentage of the contract value.
ITB	The signing of Contract Agreement will take place at:
47.1	Address: Central Maintenance Division Project Office, BPC, Yarden Lam, Post Box No. 580, Thimphu, Bhutan.
ITB 47.2	The letter of acceptance must be accepted on or before: 10 (ten) days after the notification of award.



Section III. Evaluation and Qualification Criteria

Table of Contents

(ITD 20)	2
Domestic Preference (ITB 38)	
Evaluation Criteria (ITB 39.3 (e))	
Multiple Contracts (ITB 39.6)	
Postqualification Requirements (ITB 41.2)	3



		Domestic Preference (ITB 38)		
1.1	prefere	Bidding Data Sheet (BDS) so specifies, in comparing Bids, a margin of nce will be granted to Goods of Bhutanese Origin.		
1.2	For applinto the	plication of domestic preference, all responsive Bids will first be classified following three categories:		
	a.	Category I: Goods shall be considered to be of Bhutanese Origin based on the percentage of value addition as prescribed by the Ministry of Economic Affairs, Bhutan;		
	b.	Category II: All other bids offering Goods manufactured in Bhutan;		
	c.	Category III: Bids offering Goods manufactured outside Bhutan that have been already imported or that will be imported.		
1.3	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 Category I or Category II is the lowest, it shall be selected for the award.			
1.4	Catego (5%) p bidder	If as a result of preceding comparison, the lowest evaluated bid is a bid from Category III, for the purpose of further comparison only, an upward five percent (5%) price adjustment will be made to the CIF/CIP/DDP bid prices of Category III bidders. The lowest evaluated bid determined from this last comparison shall be selected for the award.		
1.5	Bidder that th	es applying for the preference shall provide all supporting documents to prove e Goods offered by them are from Category I and Category II respectively.		
		Evaluation Criteria (ITB 39.3 (e))		
	noo with IT	aluation of a Bid may take into account, in addition to the Bid Price quoted in B 16.6, one or more of the following factors as specified in ITB 39.3(e) and in o ITB 39.3(e), using the following criteria and methodologies.		
2.1	Brand	Name Name Strategic Critical Items Strate		
	sku'reduce servic	has adopted the policy of restricting certain Strategic Critical Items (SCris) as per the provision of the BPC Procurement Manual to ensure high quality, a inventory and to sustain long-term smooth operation and maintenance es. Bidders must ensure that for these lots, only the listed brand names are d and effort must be made to source this equipment directly from the facturers and or their authorized dealers. Preferred Brands/Restricted Brands		

2 2	Dalivan	v Schedule	(as per Incoterms specified in BDS)				
2.2	The Go specified completed Bids shadone (ods are red in the Section. Bids all be adjust 1) per cent delivery so	equired to be delivered in accordance with and completed as ection V, Schedule of Supply. No credit will be given to earlier offering late delivery schedules (LDS) will be accepted but the red for the purpose of the bid evaluation only adding at the rate of of the bid price for each week of delay to the bid price. Bids chedules beyond 1 (one) month of the date specified in Section V, a shall be rejected.				
2.2	Adingto	nent for De	viations from the Terms of Payments				
2.3	Deviation not be p	Adjustment for Deviations from the Terms of Payments Deviation from terms of payment as specified in special condition of contract shall not be permitted. All bids deviating from specified terms of payment will be treated as non-responsive.					
2.4	Contrac	ctual and Co	ommercial Deviations				
	The co comme assessn	The cost of all quantifiable deviations and omissions from the contractual and commercial conditions shall be evaluated. The Purchaser will make its own assessment of the cost of any deviations for the purpose of ensuring fair comparison of Bids.					
			3. Multiple Contracts (ITB 39.6)				
3.1	evaluat qualific	The Purchaser shall award multiple contracts to the Bidder that offers the lowest evaluated combination of Bids (one contract per Bid) and meets the post qualification criteria (this Section III, Sub-Section ITB 39.2, Post qualification Requirements)					
3.2		rchaser sha	11:				
	a.	Evalua lot and	tte only items/lots that include at least the percentages of items per quantity per item as specified in ITB 16.8.				
	b.	Take i	nto 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.				
		4. Pos	t qualification Requirements (ITB 41.2)				

accorda include qualific	ance with ITB 41, using only the requirements specified. Requirements not d in the text below shall not be used in the evaluation of the Bidder's eations.
a.	Financial Capability
	The Bidder shall furnish documentary evidence that it meets the following financial requirement(s): <i>Not Applicable</i> .
b.	Experience and Technical Capacity
	The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s): ISO Certificate; list of previous clients, relevant catalogues, test certificates, list of past performance certificates and manufacturer's profile for all new brands that are introduced in BPC.
C.	The Bidder shall furnish documentary evidence to demonstrate that the Goods it offers meet the following usage requirement(s): <i>Not Applicable</i>



PART 2- Supply Requirement



Section V- Schedule of Supply

Section V. Schedule of Supply

Table of Contents

1. Delivery and Completion Schedule	3
2 Technical Specifications	4



1. Delivery and Completion Schedule

a. The delivery period shall commence from the date of signing contract.

Lot No.	Lot Description	Required Arrival Date of Goods or Completion Date for Related Services
Lot 1	Machineries	120 days from the signing of contract
Lot 2	Tools	90 days from the signing of contract
Lot 3	Testing equipment	120 days from the signing of contract
Lot 3	Spares and Consumables	90 days from the signing of contract

Location / Destination as specified in BDS -Shall be RSD, Stores at Gelephu, Sarpang.



2. Technical Specifications

Table of Content

Sl #	Technical Specification	Page No.
1	Section I- Common Technical Requirements	5-25
2	Technical Specification for Lot 1(Machineries) and Lot 2 (Tools)	1-25
3	Technical Specification for Lot 3 (Testing equipment) and 4 (Spares and	
4	Table of guaranteed technical particulars (GTP Forms)- bidders to fill up	
5	Price schedule	

Note: Serial no. 5 (Table of guaranteed technical particulars -Bidders to fill up), and serial no 6 (Price Schedule) are enclosed at the end of the bidding document for convenience.



Section I - Common Technical Requirements

1.1 General

In the following sections, this document describes equipment required for the tender. The common technical specifications are to mainly state the general requirements commonly applied for all the Packages. If there is any discrepancy in the requirements between the General Specifications and the Technical Specifications in this Section, the requirements mentioned in Technical Specifications shall prevail.

1.2 Scope of Work

The supply contract includes the design, manufacture, testing, insurance, delivery, installation and commissioning in complete form (assembly at warehouse if required) unloading and proper handing over the supplies to the Purchaser's Warehouse at RSD, Gelephu, Sarpang, Bhutan, of the Equipment as specified in the Price Schedule.

All necessary foundation bolts, rag bolts, nuts and washers, grouting packing and the like required for mounting and securing the equipment/assemblies should be included in the supply.

Bidders shall furnish guaranteed particulars in the Schedules enclosed. Drawings of all components shall be provided together with the equipment type and reference number to ensure their identification.

The unloading of the goods (items) in the purchaser's warehouse shall be in the scope of the suppliers.

1.3 Units of Measurement

Metric units of measurement (System International) shall be used on all Contract documentation. Angular measurement shall be in degrees with 90 degrees comprising one right angle.

1.4 Standards

The design material, construction, manufacture, inspection and testing of all equipment supplied under this Specification shall conform to the latest editions of the International Electro-technical Commission (IEC) Specifications and other international standards where the material is not covered by IEC. Other national or international standards are accepted if they promise to confer equal or superior quality and performance than IEC or the specified standards.

The Supplier shall provide to the Purchaser, English language copies of any Standards and Codes of Practice, which the Supplier wishes to use. The Supplier shall provide English language translations of any Standards and Codes of Practice which the Supplier wishes to use and which are in a language other than English.

1.5 Language

The English language shall be used on all Contract documents, drawings and calculations and in all correspondence between the Supplier and the Purchaser. Any documents and drawings submitted by the Supplier in the language other than English to the Purchaser will be returned to the Supplier without review by the Purchaser.

1.6 Site Conditions

1.6.1 The conditions for the design of the equipment are as follow:

Basic Design Parameters	Basic Design Value		
Altitude	2400 metres		
Ambient Air Temperature: minimum	-10°C		
	+40°C		
Maximum			
Average Annual Isokeraunic Level	75 thunderstorm days		
Average Annual Rainfall & Period	1400 mm (May to September)		
Climate	Varied (From tropical to severe winters)		
Relative Humidity	20 – 100%		
Seismic Acceleration: Horizontal	0.1 g		
Vertical	0.05 g		
Snow Incidence and period	150 –300 mm (December to March)		
Wind Pressure: Conductors	45 kg/m^2		
Towers, Supports	195 kg/m ²		

1.6.2 Special Conditions

The equipments under this tender shall be designed for 2400m and accordingly shall the equipment/components shall be altitude corrected to 2400m.

1.7 Electrical Design Parameters

The electrical parameters of the equipments in accordance with relevant IEC and IS standards for 33kV and below are shown in following tables.

Medium Voltage

	1.87	22	11	566
Nominal System Voltage	kV	33	11	E C. THIN
Nominal System Frequency	Hz	50	50	\$0 CALL
Maximum System Voltage	kV	36	12	7.2
Rated Impulse withstand voltage (Peak)	kV	170	75	60

Rated one minute power frequency withstand voltage (rms	s) kV	70	28	20
Rated one second short time current (rms)	kA	16	20	20
Rated short circuit withstand current (peak)	kA	40	50	50
Creepage Distance	(mm/kV)	25	25	25

Low Voltage

Insulation parameters- Low Voltage

Nominal System Voltage	V	400/230
Nominal System Frequency	Hz	50
Maximum System Voltage	V	424/2441
Rated one minute power frequency withstand voltage (rms)	V	3000
Rated impulse withstand voltage (peak)	kA	7500

Note 1: Phase to Phase / Phase to Neutral

System Variation

Parameters permissible at 75 °C		Variation
Voltage Regulation of MV System	33,11,6.6 kV	±10%
Voltage Regulation of LV System	400/230 V	±6%
System Frequency	50 Hz	-2%, +1% 1
Parameters permissible at 75 °C		Variation

Note 1: Maintain the System frequency between 49.0-50.5Hz.

1.7.1 De-rating

Since various standards or recommendations enforce validity limits on device characteristics, therefore the values mentioned in this specification are for the normal condition of use i.e. below 1000 m. Beyond these limits, it is necessary to deduce certain values, in other words to de-rate the device. De-rating must be considered;

- For insulation level of external insulation.
- For electrical clearances of two conductive parts measured through air.

1.7.2 Basic Insulation Level (BIL) De-rating According to Altitude

For installation at an altitude higher than 1000 m, the correction method recommended in IEC 60694 is convenient to use for purpose of the determination of withstand test voltages.

1.7.3 Electrical Clearance De-rating According to Altitude

If the equipment is specified for operation at an altitude higher than 1000 m, the clearance requirements shall be increased by 1.25% for every 100 m by which the altitude exceeds 1000 m. Requirements are given for phase-to-earth; phase-to-neutral and phase-to-phase clearance.

1.8 Spare Parts, Tools and Appliances

The bidder shall attach the spares, special tools and/ or appliances which are recommended.

The Purchaser may order all, none or any of the recommended items. Those ordered shall be delivered not later than the date of receipt of the last shipment of the associated item of plant. The price of the items shall be subject to the same price conditions as the associated item of plant.

All spares shall be interchangeable with the original parts. They shall be treated and packed for long term storage under the climatic conditions of site.

Each item shall be clearly and permanently labeled on the outside of its container with its description and purpose. When several items are packed in one case, a general description of the contents shall be given on the outside of the case. Spare parts shall not be shipped in the same cases as components, which are used for erection. The cases shall be clearly labeled to indicate that they contain spare parts or tools and each tool or appliance shall be clearly marked with its size and purpose.

All case containers or other packages are liable to be opened for inspection and checking on site.

The cost of recommended spares, special tools (other than those specified in the BOQ) will not be taken into consideration when comparing bids.

1.9 Electrical Power Supplies

a) Power Supplies

Power supplies for plant and equipment shall be:

i. 400 V, 3 phase, 4-wire, 50 Hz for power.

ii. 230 V, 1 phase, 50 Hz for lighting, indication, and anti-condensation heaters.

48/110 V DC for relays, essential indication, CB spring charging, controls/ protection, PH alarms, CB tripping and closing.

b) Miniature Circuit Breakers

Means shall be provided for protection and isolation of circuits associated with protection, control and instruments. They shall be of approved type and grouped, as far

as possible, according to their functions. They shall be clearly labeled both on the panels and the associated wiring diagrams.

Miniature circuit breakers shall be of the thermal and magnetic tripping type, and comply with IEC 60898 and IEC 60947-2.

c) Instruments

All electrical instruments and meters shall comply with IEC 60051 and IEC 61010 and, unless otherwise specified, shall be of industrial grade accuracy. Three-phase power measuring instruments shall be of the three-phase unbalanced load pattern wherever the current and Voltage references permit. Energy meters shall be three phase four wire having maximum demand indicator, RS485 port and optical port.

All indicating and recording instruments shall be flush mounted in dust proof cases complying with IEC 60068 and dimensions to IEC 61554.

The size of all indicating instruments shall be 96 mm square with long scale and instruments supplied from transducers shall have 4-20 mA movements. Running hour meters shall have 6 digit cyclo-meter type indicators.

Instrument dials shall be white with black markings. A red line shall be drawn on each scale to represent rated conditions. Bezels shall have uniform semi-gloss black high-grade finish.

The movements of all electrically actuated instruments shall be of the deadbeat type. Instruments shall be provided with a readily accessible zero adjustment wherever possible.

d) Terminals

Moulding materials shall be self-extinguishing or resistant to flame propagation, substantially non-hygroscopic and shall not carbonise when tested for tracking. The insulation between any terminal & framework or between adjacent terminals shall withstand a test of 2 kV rms. for one minute. The mouldings shall be mechanically robust to withstand handling while making terminations.

All terminals shall be mounted in accessible positions. Adjacent terminals shall be adequately spaced with respect to each other and to the incoming cable gland plate. Separate terminations shall be provided on each terminal strip for the cores of incoming and outgoing cables including all spare cores.

Terminal blocks for CT and VT secondary leads shall be provided with test links and isolating facilities. Terminals provided for current transformers shall incorporate facilities to enable secondary windings to be short-circuited without disturbing fixed wiring and earthing facilities.

Terminations for circuits operating at Voltages greater than 60 V shall be protected by transparent insulating covers marked with the working Voltages.

DC circuit terminals shall be segregated from AC terminals.

Unless otherwise specified, all the terminal blocks except the terminal blocks for CTs shall be suitable for connecting minimum two 2.5 sq.mm copper conductors of the external cables at each connecting point. The terminal blocks for CTs and PTs shall be suitable for connecting minimum of 4.0 sq. mm and 2.5 sq. mm copper conductors respectively.

All spare contacts and terminals of the panel mounted equipment and devices shall be wired to terminal blocks.

The terminal assemblies shall give the required number of ways plus 20% spare with a minimum of 5 terminals. These shall be uniformly distributed on all rows of terminal blocks.

e) Panel Wiring

All wiring shall be carried out with 1100 V grade, single core, stranded copper conductor wires with FRLS PVC insulation and shall be Vermin, rodent proof. The minimum size of the stranded copper conductor used for panel wiring shall be as follows:

a) All circuits except CT circuits : 1.5 mm2 per lead. b) CT Circuit : 2.5 mm2 per lead.

The minimum number of strands per conductor shall be seven. Extra flexible wires shall be used for wiring of devices mounted on moving parts such as swinging panels and doors.

The wiring shall be bound and supported by clamping, roughing or lacing. Spiral wrapping will not be accepted. Wireways shall not be more than 50% full. Adequate slack wire shall be provided to allow for one re-stripping and reconnection at the end of each wire. When screened cables or wires are necessary, an insulating sheath shall be included.

Wiring and supports shall be of fire resistant material.

Wiring shall only be jointed or teed at terminals. Terminals of the clamp type shall not have more than two wires connected.

f) Wire Colour Code

Wire colours shall be as follows:

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Colour	Purpose
Red	R-phase connections in current and Voltage transformer circuit

	only	
Yellow	Y-phase connections in current and Voltage transformer	
1 4110	circuits only	
Blue	B-phase connections in current and Voltage transformer	
Bitte	circuits only.	
Green with	Connections to earth	
Yellow Stripes	1 1 wested to the	
Black	AC neutral connections, earthed or unearthed, connected to the	
D.W.	secondary circuits of current and Voltage transformers.	
Any other	AC connections other than those above.	
Colours		

Alternatively, where equipment is wired in accordance with a manufacturer's standard diagram, wiring may be carried out in a single colour except that all connections to earth shall be green with yellow stripes.

g) Terminations and Ferrules

The ends of every wire and every cable tail shall be fitted with numbered ferrules of white with alpha numbers clearly engraved in black.

Moisture and oil resisting insulating material shall be used. The ferrules shall be of the interlocking type and shall grip the insulation firmly.

Wires and terminals associated with tripping circuits shall be distinctively marked.

h) Electrical Insulation

Insulating materials shall be finished to prevent deterioration of their qualities under the specified working conditions.

Plastics, elastomers, resin-bonded laminates and inorganic materials shall be of suitable quality selected from the grades or types in the appropriate IEC Standard.

All cut or machined surfaces and edges of resin-bonded laminates shall be cleaned and then sealed with an approved Varnish as soon as possible after cutting.

i) Electronic and Control Equipment

Equipment shall be capable of withstanding randomly phased transient over-voltages of either polarity on the power supply or interruptions of the power supply without damage or impairment to the equipment's subsequent performance. In the case of controls, no mal-operation shall occur.

Where manufacturers require that electronic equipment supplied under this Contract should not be subjected to insulation resistance tests ("Meggering"), suitable warning THIMPHU notices shall be provided and installed in appropriate locations.

No thermionic valves shall be used in the equipment. Wherever possible, integrated circuits shall be used.

It shall be possible to remove/replace card from/to electronic equipment without damage and without interfering with the operation of the rest of the equipment or system. If necessary, consideration should be given to switching off the supplies locally to a card to prevent inadvertent interference to the equipment or system during removing/replacing a card.

j) Alternating Current Supply Practice

Double-pole switches shall be used to break single-phase ac mains supplies. For multiphase supplies, each phase shall be switched simultaneously and the neutral should preferably not be switched. If it is switched, it shall be opened after and closed before the phase-lines.

All mains circuits shall be protected only in the phase-lines by MCBs of suitable rating or by other suitably approved protective devices. The neutral shall be connected by a removable link located near the protective devices.

All main transformers shall have an electrostatic screen, which shall be earthed.

k) Direct Current Supply Practice

Double pole switches shall be used to break dc supplies, one pole for the positive line and one pole for the negative.

DC circuits shall be protected by MCBs of suitable rating installed in both positive and negative lines.

Measures shall be taken to prevent arcing across switches or relay contacts which are required to break inductive circuits (e.g. bypass diodes or capacitors connected across coils).

Power supply bus bars in cubicles shall be shrouded.

The duplicate auxiliary power supply feeders shall be provided in Control panels. Autochangeover facility in DC DB shall be provided so that in case of failure of one power source, other shall cut in automatically. The protective relays shall not give a trip signal for momentary loss of control Voltage or during changeover of control Voltage.

1) <u>Batteries</u>

Electronic equipment shall not use local internal batteries unless the approval has been epo obtained. Where approval is given, batteries used inside equipment shall be totally sealed, leak-proof type.

m) Earthing

Provision shall be made for earthing all equipment intended for connection in an ac mains supply.

All structural metal work and metal chassis shall be connected to earth. Earthing conductors shall be at least equal in cross-sectional area to the supply conductors and shall be capable of carrying the fault current for 1 second.

n) Anti-Condensation Heaters

Any items of electrical equipment which are liable to suffer from internal condensation (due to atmospheric or load variations) shall be fitted with heating devices suitable for electrical operation at 230 Volts ac, 1 phase, 50 Hz of sufficient capacity to raise the internal ambient temperature by 5°C. The electrical apparatus so protected shall be designed so that the maximum permitted rise in temperature is not exceeded if the heaters are energised while the apparatus is in operation. Where fitted, a suitable terminal box and control switch shall be provided and mounted in an accessible position. A thermostat shall be provided in the heater control circuit to cut-off the heater at 45° C.

o) Interior lighting and Receptacles

The panels shall be provided with a compact fluorescent lamp (CFL) lighting fixture (11 W) rated for 240 V, 1 phase, 50 Hz supply for the interior illumination of the panel during maintenance. Switching of the fitting shall be controlled by the respective panel door switch. All CFL lamps shall be with pin type holder.

The panels shall be provided with a 230 V, 1 phase, 50 Hz, 6 Amps, 3 Pin receptacle with switch. The receptacle with switch shall be mounted inside the panel at a convenient location.

1.10 Materials and Finishes

1.10.1 General

Unless otherwise provided for in the Contract, all materials, fixtures, fittings, and supplies furnished (hereafter called "materials") shall be new and of standard first grade quality. All assembly and construction work shall be done in a neat and professional manner. Materials shall be free of defects. Materials shall be brought to site only after inspection and issuance of proper dispatch clearance. The dispatch clearance shall be issued within three working days after the inspection from the BPC head office. The local materials like bricks, sand aggregates shall be tested in the local laboratories before bulk supply.

All of the plant, whether temporary or permanent, shall be in accordance with the Contract with respect to character, type, construction, constituent substances, weight, strength, shape, dimensions, etc.

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In choosing materials and their finishes, due regard shall be given to the harsh climatic conditions which can occur in the area. Some relaxation of the following provisions

may be permitted where equipment is hermetically sealed, but weatherproof materials should be used wherever possible.

All structural members, nuts and bolts shall be galvanised and shall conform to the requirements.

Surface Coating and Galvanising 1.10.2

All ferrous metalwork shall be provided with an effective galvanised or corrosion resistant paint treatment applied in accordance with the best trade practice. The paint treatment for each application shall be selected from the 'Paint Procedure' described in subsequent paragraphs.

The formulation and application procedure for the paint shall be as recommended by the manufacturer for the appropriate exposure conditions.

Coatings shall not be applied before vessels and chambers have passed any required pressure or vacuum tests. Precautions shall be taken to prevent corrosion occurring in the period of time between cleaning of the steel and commencing the painting.

Adequate amounts of each type and colour of finish coat as applied to the major equipment items shall be provided for "touch-up" purposes.

The colour of equipment shall be painted with RAL 7032 (exterior) and glossy white (interior).

Paint Procedure 1.10.3

- For Mild Steel Items Exposed to Weather: (a)
 - Blast clean. (i)
 - 1st coat Inorganic zinc primer to give a dry film build of not less than 75 (ii) microns.
 - 2nd coat Chlorinated Rubber to give a dry film build of not less than 100 (iii) microns.
 - 3rd coat Chlorinated Rubber to give a dry film build of not less than 75 (iv) microns.
 - (b) Mild Steel Items Immersed in Oil:
 - Blast clean. (i)
 - 1st and 2nd coats Epoxy paint treatment system in accordance with (ii) coating manufacturer's recommendation for oil immersion.
 - (iii) Total dry film build thickness shall not be less than 350 microns.

Galvanising 1.10.4

Galvanising shall be applied by the hot dipped process generally in accordance with ASTM A 123-78 for structural steel and ASTM A 153-73 for iron and steel hardwares

For structural steel, galvanising shall average not less than 0.61 kg/m² (no individual specimen shall show less than 0.55 kg/m²) except for 6.35 mm and heavier materials in which case galvanising shall average not less than $0.702~kg/m^2$ (no individual specimen shall show less than $0.61~kg/m^2$).

For iron and steel hardware, galvanising shall be in accordance with Table 1 of ASTM A 153-73.

The zinc coating shall be smooth, clean, of uniform thickness and free from defects. The preparation for galvanising and the galvanising itself shall not adversely affect the mechanical properties of the coated material.

1.10.5 Castings

All castings shall be free from blowholes, flaws and cracks as far as is practicable. No welding, filling or plugging of defective parts shall be done under any circumstances. All cast-iron shall be of close-grained quality approved by the Engineer.

1.10.6 Welding

All joints shall be bolted joints and welded joints shall not be permitted either during the design stage or the construction stage. However, during erection in case of additional unforeseen requirements by the Employer, if welding needs to be resorted to, the same shall be done with prior approval of the Engineer, and shall conform to BIS specifications. In such a case, the Contractor shall specifically indicate the location and purpose along with the proposed methodology for welding for the Engineers' approval. The wielding shall be carried out by a certified welder who have undergone minimum of certificate level training in this trade.

1.10.7 Nuts and Bolts

Nuts and bolts for incorporation in the plant shall conform to ISO Metric. Other sizes or threads may be permitted only for threaded parts not to be disturbed once manufacturing is complete. Each bolt shall have rolled threads, one hexagonal nut and two washers. Thread length shall be 50 percent of bolt length or maximum 150 mm.

All steel bolts and screwed rods shall be galvanised including the threaded portions. All associated nuts shall be galvanised with the exception of the threads which shall be oiled. The thickness of zinc coating shall be not less than 0.45 kg/sq. metre of surface area.

All bolts, nuts and washers shall be of non-corroding material where they are in contact with non-ferrous parts in conductor clamps and fittings and elsewhere where specifically required by the Purchaser.

1.11 Packing and Shipping

1.11.1. General: It is expected that the packaging performs a number of functions during transportation, storage and use, including:

- a. Containment of the product to ensure integrity and safety
- b. Protection of the product from physical damage
- c. Convenience of use and ease of handling by users
- d. Compliance to legal and regulatory requirements
- e. Communication of information
- f. Environmental acceptability and ease of disposal and/or recycling
- 1.11.2 The goods/materials shall not be shipped/ dispatched unless dispatch clearance from Purchaser/Engineer is issued. The dispatch clearance will be issued from the BPCs office after the inspectors submits its inspection report to BPC, within 4 working days after the submission of the report.
- 1.11.3 Any items liable to be damaged in transit shall be effectively protected and securely fixed in their cases. All cases of over 2 tonnes shall be marked to show where slings should be placed.
- 1.11.4 All cases shall be clearly identified giving particulars of manufacturer's name and type of equipment. All identification marks on the outside of cases shall be waterproof and permanent. All electrical equipment shall be adequately sealed and desiccating agents used where necessary to prevent damage from condensation. All equipment shall be packed and protected, bearing in mind that it will be shipped to a harsh environment, that a considerable period may elapse between its arrival on site and it's unpacking and that covered storage may not always be possible.
- 1.11.5 All wood and other materials used in packing cases shall be insect free. Adequate protection and precautions are to be taken to exclude termites and other vermin, noxious insects, larvae or fungus from the packing materials or plant. All contents are to be clearly marked for easy identification against the packing list.
- 1.11.6 The Supplier shall protect all steelwork before shipment, to prevent corrosion and/ or damage. Bundles of steel sections shall be properly tied together by an approved method and care shall be taken to ensure that they are robust and that they can be handled easily during shipment.
- 1.11.8 Packing cases where used, shall be strongly constructed and in no case shall timber less than 25 mm in thickness be used. The contents of packing cases shall be securely bolted or fastened in position with struts or cross battens. Cross battens supporting weight in any direction shall not rely for their support on nails or screws driven lengthwise into the grain of the wood, but shall be supported by cleats secured from inside.
- 1.11.9 The following information shall be marked on the containers/cartons as well as boxes
 - a) Supplier's name, Project title and Contract reference
 - b) Identification number
 - c) Net/Gross weight

d) Purchaser's name with other despatch particulars such as destination.

1.12 Labels

- All equipment shall be provided with labels or name plates, giving a description of the equipment, together with information regarding the rating, nominal voltage, nominal current and the like under which the item of plant in question has been designed to operate. The labels shall be provided on packaging to the Purchaser's approval.
- 1.13.2 Such nameplates or labels are to be of non-corrodible, non-hygroscopic material with lettering of a contrasting colour.
- 1.13.3 Labels on cable drums shall state the cable details, including the length in metres.

1.13 Locks

Provision shall be made for padlocking of mechanism boxes, isolators and outdoor switchgear as required by the Specification or as necessary to limit access or the safety of personnel. All padlocks will be provided by the Purchaser.

1.14 Supplier Documents and Drawings

1.15.1 General

The Supplier shall be responsible for submission, re-submission and obtaining approval as required of all the documents and drawings listed below (but not limited to), so that there shall be no delay to the work due to the absence of such documents and drawings. Any approval by the Purchaser will not relieve the Supplier of any obligations under the Contract.

Any alterations to the documents and drawings which may be required by the Purchaser for approval shall be made by the Supplier at his own expense. All materials and work involved in their manufacture shall be as indicated in such drawings.

No work shall be done on any part of the Goods, the design or construction of which is dependent on the approval of such drawings or data, until such approval has been given.

1.15.2 Manner of Submission and Approval of Drawings

The Supplier shall submit three prints of each drawing or document (including all the drawings, documents, calculations, manuals required under the Contract) for approval marked 'For Approval'. One copy will be returned to the Supplier marked up with approval or any proposed alterations or conditions. The Supplier shall provide the same number of further prints for any drawings that are altered. The submission of drawings for approval shall be repeated until 'Approved' or 'Approved with conditions' is given by the Purchaser.

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Within fifteen working days after receipt by the Purchaser of any drawing or document requiring the Purchaser's approval, the Purchaser shall either return one copy thereof to the Supplier with its approval endorsed thereon or shall notify the Supplier in writing of its disapproval thereof and the reasons therefore and the modifications that the Purchaser proposes.

All drawings, information, design reports, etc shall be neatly type written and be presented as bound documents. The documents presented shall have neatly drawn title pages that clearly show the name of the Purchaser, identify the project name, the contract number, the date, the revision number, etc, and shall be provided with a table of contents.

Bidder need to submit 1 (One) hard copies of GTP's and drawing for approval after the award of contract.

1.15.3 Manuals

The Supplier shall submit the instruction manual for all the goods supplied under the contract. The Supplier shall follow the requirements as mentioned in the relevant clauses in the Technical Specifications.

1.15 Quality Assurance

- The manufacturer must operate a quality assurance system that complies with ISO 9000. The Supplier shall provide current certification showing the manufacturers' compliance with ISO 9000 or equivalent national standard. The certificate must be issued by an independent, accredited issuing authority.
- In compliance with the proposed quality assurance system of ISO 9000 or equivalent, Bidder shall submit with Bid the quality assurance plan for manufacturing the Goods. Especially, if the Bidder proposes to form a joint-venture or consortium, such a Bidder shall submit with Bid a quality assurance plan, including explanation how to manage the same quality of Goods by the joint-venture partners.

1.16 Tolerance

The variation in quantity to be supplied against confirmed order shall be permissible up to One (1) percent per item per consignee for delivery. However, for the short supply the payment shall be made as per the actual supply and for over supply the payment shall be limited to the ordered quantity.

1.17 Dispatch Clearance

1.19.1 The Supplier shall submit all final test and inspection reports to Purchaser's representative (inspector) during his stay at the workshop for the inspection. The inspector shall issue a "Dispatch Clearance" to the Supplier when the tests and inspection has successfully completed in compliance with the Technical Specifications.

- 1.19.2 The goods have to reach to the delivery warehouse within Twenty (20) days from the date of issuance of dispatch clearance (if the goods are supplied/manufactured from India & Nepal).
- 1.19.3 The goods have to reach to the delivery warehouse within Forty Five (45) days from the date of issuance of dispatch clearance (if the goods are supplied/manufactured from Third Countries).

Section - 2 Technical Requirements - Electrical

The following electrical technical requirements shall also apply to the equipment supplied under this Contract.

2.1 Electrical Supplies for Auxiliary Plant

The equipment provided under this Contract shall be capable of operating reliably at voltages down to 80% of the nominal voltage except where otherwise specified.

2.2 Electric Motors

- 2.2.1 All motors shall be in accordance with IEC 60034 and 60072 unless otherwise specified, shall be of the totally enclosed fan cooled type, suitable for continuous operation and direct on-line starting.
- 2.2.2 They shall be suitable in all respects for service in a damp tropical climate. Main conductor and slot insulation shall be non-hygroscopic and in accordance with Class F as per IEC 60085.
- 2.2.3 Motors to be located outdoor shall be entirely suitable for operation under the climatic conditions at site.
- 2.2.4 Motors shall be capable of operating continuously at rated output at any frequency between 48 and 51 Hz and at any voltage within ten percent of the nominal value. Motors shall be designed to be operated for a period of not less than five minutes at a voltage of 25% below the nominal value and at normal frequency without injurious overheating. If required by the purchaser, the supplier shall demonstrate that the motors comply with this requirement.
- 2.2.5 The starting current at full voltage shall not exceed six times the rated full load current.
- 2.2.6 All bearings shall be fitted with oil or grease lubricators. Vertical shaft motors shall have approved thrust bearings.
- 2.2.7 All terminals shall be of the stud type of adequate size for the particular duty, marked in accordance with an approved standard and enclosed in a weatherproof box.

2.2.8 All terminal boxes shall be fitted with an approved sealing chamber, conduit entry or adapter plate, as required, together with the necessary fittings to suit the type of cable specified.

2.3 Starters and Contactors

- 2.3.1 Where starters are to be provided under this Contract, each motor shall be equipped with two or three pole control gear as appropriate and suitable, unless otherwise specified, for direct starting by the switching of full line voltage on to a standing motor. All starters should preferably be supplied by one manufacturer.
- 2.3.2 Contactors are to be of robust design and are to comply with IEC 60947-4. They shall operate without undue noise or vibration.
- 2.3.3 Contactors shall be mounted in ventilated metal cubicles. Unless otherwise approved, the metal surface of the cubicle walls adjacent to the contactors shall be protected by fireproof insulating material. Where two or more contactors are contained in the same cubicle, they shall be separated by barriers of fireproof insulating material. The cubicles shall be complete with all locks, cable sealing boxes, busbars, internal wiring, terminal boards and accessories. All bare copper connections shall be taped and all secondary wiring is to be so arranged and protected as to prevent it being damaged due to arcing.
- 2.3.4 Starters shall be of the electrically held-in type with integral "start" and "stop" push buttons mounted externally on the door, with integral interlocked isolators. Where required, auxiliary switches shall be included for the operation of "red" and "green" indicating lights in remote instrument panels.
- 2.3.5 All motor contactors and their associated apparatus must be designed to operate for a period of not less than 5 minutes at a voltage of 25% below the nominal value and at normal frequency without injurious overheating.
- 2.3.6 For circuits controlling motors of 15 kW and above, transformer operated overload and phase failure relays shall be provided. For controlling motors of less than 15 kW, thermal overload trips shall be acceptable.

2.4 Electronic and Control Equipment

2.4.1 Component Ratings

Components and materials shall not be subjected to voltages; currents, temperature stresses, or any other condition outside the operational values given in the manufacturer's published data, over the range of temperature variations and climatic conditions indicated elsewhere.

Where circuits use components, which operate under unusual conditions, the Bidder shall produce documentary evidence that the life, stability and characteristics of the components used will be satisfactory.

Components which in their normal function may have full supply voltage applied shall be capable of withstanding continuous energisation.

2.4.2 Component Tolerances and Aging

The design of the circuits used shall be such that initial tolerances and also cyclic and non-cyclic changes in component values and parameters which may occur during the operational life of the equipment are either inconsequential or are compensated for.

Such compensation shall not necessitate the use of adjustable controls without the prior approval of the purchaser.

Standard components only shall be used and any individual selection necessary to obtain particular parameters shall be subject to the approval of the purchaser.

The combined effects of all tolerances, within a single component and between components, shall be allowed for by taking all tolerances in all worst case combinations produced by environmental and operating conditions. Other statistical assumptions that only certain combinations of tolerances will occur shall not be made, unless the relevant parameters involved are invariably interdependent.

2.4.3 Protection

All circuits shall be protected so that in the event of a component fault, no damage occurs to any interconnecting wiring and any other damage that does occur is confined as closely as possible to the fault.

Protective devices shall be so arranged that the risk of fire within the equipment be minimised. The greatest possible protection shall be provided, consistent with reliability and the ability to withstand operational conditions.

Power supply units' with/without stabilisers shall be protected with voltage trip and overload current circuits with an auto recovery feature.

If any protective device, such as MCB, is incorporated in the output circuits of a current-limited power supply unit, the available current under short circuit conditions shall be sufficient to operate them. MCBs shall be in the 'non-common side of the circuit.

Indication of trip of MCBs shall be clearly displaced by monitoring of trip. Circuits shall be grouped so that, following the operation of a protective device, no false operation shall occur as a result of an MCB trips.

The design, location and connections of MCB shall be such that they do not present a danger to the operator when it is in service.

2.4.4 Interference

a) Self-generated Interference

Equipment shall not generate any type of interference at a level which could be detrimental to the performance of any other equipment or which could cause annoyance or discomfort to personnel.

or discomfort to personnel.

The earthing and cabling arrangements shall be such that detrimental interference is not generated.

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b)External Interference

In the presence of interference expected in power station and substation environments, the design of the equipment shall be such that no damage occurs and performance is maintained to the requirements of the individual specifications.

c)Spark Quenching

Spark quenching devices shall be fitted wherever necessary to ensure continued satisfactory operation of contacts and prevent mal-operation of electronic devices.

d)Noise and Vibration

The acoustical noise levels and/or vibration produced by the equipment in operation shall be as low as is reasonably practicable for the type of equipment concerned and shall be agreed with the purchaser.

2.4.5 Setting-Up and Maintenance Facilities

All equipment shall be provided with sufficient easily accessible test points to facilitate setting-up and fault location together with maintenance aids such as extension boards, jumper leads and special maintenance tools.

Pin or terminal numbering of all cards in all crates shall be consistently uniform throughout. Power supplies shall use the same pin positions on all cards in an equipment or system.

2.4.6 Loose Equipment

Special connecting leads extension boards and any special item required for calibration or maintenance purposes, together with the mating half of all necessary connectors shall be supplied.

2.4.7 Printed Circuit Boards

Printed circuit boards shall be epoxy glass fabric boards to comply with IEC - 60321 suitable for use in hot humid climates. Printed circuit boards may be single-sided, double-sided or multi-layer.

Printed boards shall, in general, comply with IEC 60326. They shall not bow perceptibly when they are mounted in their shelves or racks. Means shall be provided to prevent boards being plugged into the wrong sockets and the plugging in/out action shall be arranged in a positive manner.

An approved protective coat shall be applied to the printed circuit side of the board to protect against tracking, tarnishing and general deterioration due to moisture and deposition of dust. The coating shall not have any adverse reaction with any other material or components used and shall be suitable for use under tropical conditions. When boards are repaired in the field it shall be possible to apply (or 'touch up') such a finish by simple convenient means.

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2.4.8 Component Identification

- a. A component reference number shall be marked adjacent to each component. Where this is impossible, components shall be identifiable from the layout drawings provided.
- b. The following shall be marked in all instances:

MCBs

The rating and the circuit identification of each MCB shall be marked adjacent to the MCB base.

Control, Protection and Indication Devices

The function of each control, protection and indication device shall be marked. The caption and its arrangement shall be subject to the approval of the purchaser.

Preset Controls

The circuit reference and if possible, the function shall be marked adjacent to each preset control in a position where it will be clearly visible while the adjustment is being made.

Connectors

The diagram reference number shall be marked on or adjacent to each connector.

Test points shall be individually marked with the diagram reference number.

The polarity of any polarised devices (e.g. diodes) shall be marked.

Section - 3 Technical Requirements - Mechanical

The following mechanical general technical requirements shall apply to equipment supplied under this Contract.

3.1 Pipe Supports

- 3.1.1 The whole of the pipework and accessories included in this Contract shall be supported and mounted in an approved manner. All necessary saddles, structural steelwork, foundation bolts, fixing bolts and all other attachments shall be supplied.
- 3.1.2 The number and positions of all intermediate flexible supports between anchor points shall be determined by the weights to be carried and by the steelwork available for the purpose and will be subject to the approval of the purchaser.

3.2 Valves

- 3.2.1 Valves shall be arranged so that the hand wheel moves in a clockwise direction to close the valve. The face of all hand wheel moves in a clockwise direction to close the valve. The face of all hand wheel moves in a clockwise direction to works "open" and "shut" and be provided with an arrow to indicate direction for opening and shutting. As far as possible valves shall not be fitted in an inverted position.
- 3.2.2 It shall be possible to remove and replace, or recondition in situ, the seats and to remove the gates. Valves of 50-mm nominal bore and above shall be provided with valve position indicators showing the amount by which the valve is open or closed in relation to its full travel.
- 3.2.3 All valve hand wheels shall be fitted with nameplates.
- 3.2.4 Suitable means shall be provided to protect the operating mechanisms of all valves against mechanical damage and dust or dirt. Adequate provision shall be made for the lubrication of the mechanism and guides and this shall preferably be of the pressure type.
- 3.2.5 Where it will be necessary to lock valves in the open or closed position, they shall be provided with a non-detachable locking arrangement.

3.3 Oil Level Indicators

- 3.3.1 Unless otherwise approved, oil level indicators of approved design shall be fitted to all oil containers other than hermetically sealed items.
- 3.3.2 The indicators shall show the level at all temperatures 'likely to be experience in service, be marked with the normal level at 20°C clearly visible from normal access levels and be easily dismantled for cleaning.

3.4 Pressure Gauges

- 3.4.1 All pressure gauges shall be fitted with stopcocks immediately adjacent to each gauge and all pressure gauge piping shall be fitted with an isolating valve at each point of connection to the main system. Where pressure gauges are mounted on panels, the stopcocks shall be suitable for the connection of a test gauge.
- Where a difference in level exists between the situation of the gauge and the point at which pressure is to be measured, appropriate compensation shall be made in the dial reading and the dial must be marked with the amount of compensation applied. Where the compensation would amount to two percent or less of the total movement indicated under normal conditions, it may be ignored.
- 3.4.3 All pressure gauges where practicable shall be mounted on panels in locations approved by the Purchaser. Stopcocks of gauges must be readily accessible. All pressure gauges shall be clearly identified by means of separate labels of approved type and lettering.

3.4.4 All high pressure gauge piping shall be of rustless steel but other pressure gauge piping may be of copper tube or other material approved by the purchaser.

3.5 Thermometer Pockets

- 3.5.1 Thermometer pockets and instruments connections of an approved pattern are to be fitted in such a position as may be determined to suit the operation and testing of the plant to the approval of the purchaser. Where necessary, the pocket shall be of approved material suitable for the required service.
- 3.5.2 All thermometer pockets shall comply with the requirements of BS 2765 or equivalent Indian standard.



LOT 1 (Machineries)

1.0 General

1.1 Scope

This section covers the Supply for following Machineries and Tools which includes the preferred make, quantity, technical specifications and delivery and unloading at BPC store of GIS, Jigmeling, Gelephu.

2.0 HT Coil Winding machine- Semi-Automatic

- **a.** Scope: The scope of this machine are supply, *installation and commissioning* at the store of GIS, Jigmeling, Gelephu.
- b. Preferred Make.: Synthesis/ Whitelegg/Uday Enterprises or equivalent
- c. Quantity required.: 2 sets.

Sl. No	Particulars	Specification
	COMPONENT	
	Coil Diameter	Not less than 450 mm
	Coil Length	Not less than 400 mm
	Wire Size	At least 0.1 mm to 3.6 mm of Cu (Copper)
1	Conductor type	Copper / Aluminium (Bare / DPC)
	Coil Weight	50 Kgs. (Including mandrel)
	Component Loading Height	900mm
	No. of Turns	Programmable
	HEAD STOCK	
	Distance between centers	Not less than 600mm
2	Winding Spindle Speed	Not less than 350 RPM
	Spindle Motor	AC Induction Motor
	TAIL STOCK	1
3	Tail Stock	Sliding Type, Manually operated
	Axial movement of the Tail Stock center	280mm
	TENSION CONTROL	(0.10.5)
	Wire Tensioner	Standard wire Tensioner (0.1 to 0.5mm) &
		Self-Compensating
4		Tensioner (0.5 to 2.0mm) and Staggered
		pulley tensioner for DPC
		wire (Optional)
	TRAVERSE	1 100
5	Traverse Stroke Length	Not less than 400mm
	INSULATION PAPER	THIMP
	Insulation Paper Width	Not less than 450mm
	Insulation Paper Thickness	0.1mm – Plain paper

		0.3mm – Edge folded paper
	No. of Paper Feeders	2 No's for plain paper / Edge folded paper
	Paper Feeder Mounting	Cone type for Plain Paper
6	Plain roller with both sides flange for End fill Paper	
	Inner dia of Paper spool	Not less than 75mm Plastic Sleeve for Plain roller With sleeve for Edge folded paper
	Outer dia of paper spool	Not less than 400mm (both Plain & Edge folded paper)
	PAPER FEEDER	
7	Feed mechanism	Rubberized roller drive through Geared motor
	Paper Length feeding	Automatically calculated as per coil build.
	PAPER CUTTER	
8	Cutter Mechanism	Rolling shear with circular blade drive through Geared Motor.
9	CONTROLLER	PLC based controller (Siemens/Fuji)
	UTILITIES	
	Power Supply	230V AC, Single Phase, 50Hz
10	Power Consumption	2 kW Approx.
10	Dimensions	1300 x 1300 x 1500 (LxWxH) Approx. with accessories
	Weight	900 Kgs. (Approx.)





BPC THIMPHU

CMDPO

Figure 1: to be used only as sample picture

3.0 Transformer Oil filter machine

a. Scope: The scope of this machine are supply, *installation and commissioning* at the store of GIS, Jigmeling, Gelephu.

b. Preferred Make.: AR Engineering (SATARA)/ Kristorr or equivalent

c. Quantity required.: 1 set.

d. Technical Specifications:

Sl. No	Particulars	Specification
1	Flow of oil (Litre/Hour)	Not less than 600 LPH
2	Material	Mild Steel/ Carbon steel
3	Power source	Electric (3-Ph,415 V AC, 50Hz)
4	Neutralization Value	<0.1 mg of KOH/gram.
5	Moisture content	50-100PPM to <5PPM
6	Gas content	Up to < 0.05% by volume
7	Maintenance	Plants with minimum and easy maintenance
8	Operation	low operating to high vacuum filtration with rotary oil seal pumps

The components used in the oil filtration equipment should include:

- a. Degassing Chamber (Double Stage Degasification)
- b. Heaters
- c. Coarse Filter (Consumable)
- d. Fine Filter (Consumable)
- e. Magnetic Strainer (Washable)
- f. Ionic Reaction Column (Consumable)
- g. Vacuum system with roots booster (for ultra-high vacuum)
- h. Control Panel
- i. Option for trolley mounted or skid mounted machines.

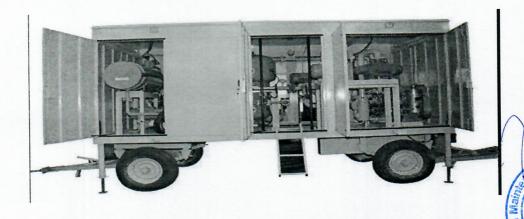


Figure 2: to be used only as sample picture

4.0 Band saw machine

a. Scope: The scope of this machine are supply, *installation and commissioning* at the store of GIS, Jigmeling, Gelephu.

b. Preferred Make.: Bhavya machine tools/Multicut Machine Tools or equivalent

c. Quantity required.: 1 set.

Sl. No	Particulars	Specification
1	Round Cutting	Not less than 280mm
2	Square Cutting	Not less than 280 x 280mm
3	Blade Size	Not less than 2800 X 27 X 0.9mm
4	Blade Speed	27,45,69m-min.
5	Power	415V-50Hz-3Phase
6	Motor output : Saw blade	Not less than 2. 2kw
7	Motor output : Hydraulic	Not less than 0. 55kw
8	Tank capacity: Coolant	Not less than 0. 55kw
9	Tank capacity: Hydraulic oil	Not less than 45ltrs.
10	Tank capacity: Coolant	Not less than 35ltrs.
11	Vise control	Hydraulic
12	Feeding mode	Manual

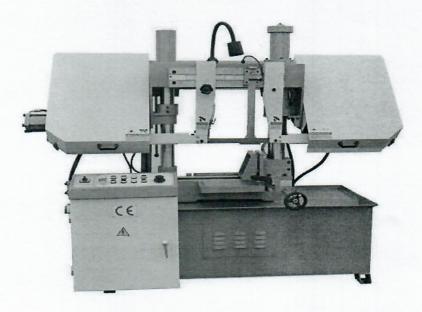


Figure 3: To be used only as sample picture.



5.0 Arc welding machine

a. Preferred Make.: ESAB/LINCOLN/MILLER or equivalent

b. Quantity required.: 3 sets.

c. Technical Specifications:

Sl. No	Particulars	Specification
1	Mains Supply V/Ph, Hz	400 ±15% / 3, 50
2	Input Power, KVA	16
3	Permitted Load at 60% Duty Cycle, A	400
4	Permitted Load at 100% Duty Cycle, A	310
5	Power Factor	0.9
6	Efficiency at Maximum Current, %	85
7	Current Range, A	60-400
8	Open Circuit Voltage (OCV), V	75
9	VRD Voltage, V	<35
10	Dimensions L X W X H, mm (approx.)	512 X 255 X 400
11	Weight, Kg (approx.)	24.5
12	Enclosure Class	IP21S
13	Insulation Class	Н
14	Cooling	Forced air
15	Hot Start	Adjustable
16	Arc Force	Adjustable

Should include following accessories in set:

- 1. Electrode holder of 600 amps
- 2. Heavy duty earth clamp 600 amps minimum
- 3. Copper Welding cables 70 sq. mm
- 4. Welding apron (medium) 3 nos.
- 5. Welding hand gloves (3 pairs)





Figure 4: To be used only as sample picture

6.0 MIG welding machine

a. Preferred Make.: ESAB/LINCOLN/MILLER or equivalent

b. Quantity required.: 1 set.

Sl. No	Particulars	Specification
1	Mains Supply, V/Ph, Hz	400 ±15% / 3, 50
2	Input current (Max), A	23
3	Output range, A	60-300
4	Output Voltage, V	14-32
5	Open Circuit Voltage (OCV), V	70
6	Permitted Load at 60% Duty Cycle, A	300
7	Permitted Load at 100% Duty Cycle, A	240
8	Power Factor (Max)	0.9
9	Efficiency Maximum, %	85
10	Dimensions L X W X H, mm	650X320X550
11	Weight, Kg	45
12	Power Source cooling	Forced air
13	Digital display	Voltage, Current

14	Insulation Class	F
15	IP .	218
16	Standard	IEC 60974 -1
17	Dimensions, l x w x h, mm (approx.)	516 x 214 x 357
18	Weight, Kg(approx.)	9.5
	Wire Feeder Specification	
17	Wire Feed Speed, m/min (Wire Dia, mm)	2.5 -30 (0.8)
18	Wire Dia MS/SS / (Al/FC), mm	0.8-1.2
19	Interconnection Length, m	5



Figure 5: To be used only as sample picture.



7.0 Oxygen- acetylene gas cutting torch and welding kit set

a. Quantity required.: 2 sets.

Sl. No	Particulars/ Description
1	Should include portable oxy-acetylene brazing welder tool set with two T-grade hose (color coded), goggles, regulator gauges (color coded), cutting tips, heating nozzle, welding nozzle storage case, tip cleaners and spark lighter.
2	The oxygen and acetylene welding kit should be able to cut up to 6" and weld or braze up to 1/2" with appropriate tips
3	Cutting torch and welding kit should be of high quality strong materials with heavy duty construction, durable and sturdy for use
4	The set should include oxygen regulator, and acetylene regulator
5	The welder tool set should come with readable and legible dual scale 2-inch gauges and a large brass handle designed for smooth, accurate adjustments and torch handle with built-in check valves, welding and cutting torches, cutting tips, heating and welding nozzle.
6	Should include portable oxy brazing welder hoses (T-grade, not less than 4 meters each), goggles, tip cleaners and spark lighter
7	Should include heavy duty moulded storage case packing and a spanner for easy carrying and transport
8	Should be ideal for many occasions such as welding, soldering, brazing, rivet cutting, hard-facing and metal heating process



Figure 6: To be used only as sample picture



8.0 High Pressure Washer

a. Preferred Make.: BOSCH/KARCHER/NILFISK or equivalent

b. Quantity required.: 1 set.

c. Technical Specifications:

Sl. No	Particulars	Specification
1	Current type (V/Hz)	230 / 50
2	Pressure (bar/MPa)	Not less than 20 - max. 140 / 2 - max. 14
3	Flow rate (l/h)	Not less than max. 500
4	Max. inlet temperature (°C)	max. 40
5	Connection load (kW)	Not less than 2.1
6	Area performance (m ² /h)	40
7	Current type (V/Hz)	230 / 50

Additional technical data:

- High performance cleaning for the most-stubborn dirt.
- Lighter weight for easier use.
- Powerful 2100-watt induction motor for better performance.
- Variable fan jet nozzle for general cleaning.
- Rotary nozzle for cleaning ingrained dirt.
- High pressure detergent nozzle for fast soap application.
- High performance cleaning from a lighter, easy to use product.

Should include following accessories

- 1) Washer gun,
- 2) Variable Fan Jet
- 3) Rotary Nozzle
- 4) High-pressure detergent Nozzle
- 5) Standard Lance
- 6) 8m P U High-Pressure Hose
- 7) Water Filter







Figure 7: To be used only as sample picture

9.0 Wet and Dry Vacuum cleaner with Tach filter cleaning system

a. Preferred Make.: BOSCH/KARCHER/NILFISK or equivalent

b. Quantity required.: 1 set.

c. Technical Specifications:

Sl. No	Particulars	Specifications
1	Current type (Ph/V/Hz)	1 / 220 / 240 / 50 / 60
2	Air flow rate (l/s)	Not less than 74
3	Vacuum (mbar/kPa)	Not less than 254 / 25,4
4	Container capacity (I)	Not less than 40
5	Container material	plastic
6	Rated input power / Amps (W)	Not less than 1380
7	Standard nominal width	Not less than ID / 35
8	Sound pressure level (dB(A))	Not more than 68
9	Usage	Wet and Dry cleaning

Standard Accessories to be included:

- 1. Suction hose, 4 m
- 2. Filter bag, fleece

- 3. Wet and dry floor nozzle, 360 mm
- 4. Crevice nozzle
- 5. Power tool connection adaptor
- 6. Automatic switch-off at max. filling quantity
- 7. Automatic on/off switch for power tools
- 8. Antistatic preparation
- 9. Flat pleated filter, PES
- 10. Filter cleaning, Tact filter cleaning system
- 11. Sturdy bumper
- 12. Safety class, I
- 13. Steering roller stop.



Figure 8: To be used only as sample picture.



10.0 Heavy Duty Soldering Iron

a. Preferred Make.: HAKKO/ AMERICAN BEAUTY or equivalent

b. Quantity required.: 4 sets.

c. Technical Specifications:

Sl. No	Particulars	Specifications
1	Chisel Point tip	Flat bits minimum of 2 inch (Copper
2	Input voltage	220-220 V
3	Power	Not less than 200 Watts
4	Temperature range	450-600°C
5	Soldering iron Length	About 32cm
6	Chisel Point tip	Not less than 20mm
7	Cable length	About 120cm
8	Uses	Electronic maintenance production
9	Handle	Wooden

Standard Accessories to be included:

1. 1 x 200W Soldering iron heavy duty chisel



Figure 9: To be used only as sample picture



LOT 2: Tools

11.0 General

1.1 Scope of supply

This section covers the requirements for the Preferred make, Quantity, Technical specifications and delivery and unloading at BPC stores of Transformer repair and manufacturing equipment.

12.0 Heavy Duty Double Ended Bench and Pedestal Grinder

- a. Preferred Make.: Bosch/ Toshiba/Dewalt/Makita/Black & Decker or equivalent
- b. Quantity required.: 2 sets.
- c. Technical Specifications:

Sl. No	Particulars	Specification
1	Grinding wheel diameter	Not less than 200 mm
2	Rated input power	Not less than 600 W
3	Grinding wheel width	25 mm
4	No-load speed	3,600 rpm
5	Grinding wheel bore	32 mm
6	Grit	24, 60

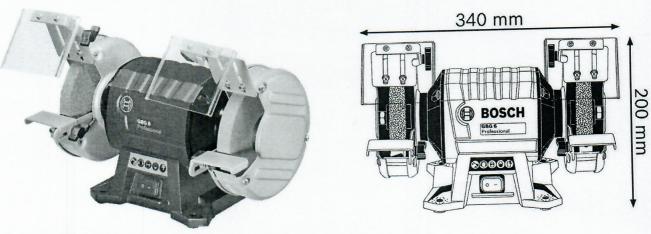


Figure 10: To be used only as sample picture



13.0 1/2" DR. Air Impact Wrench Set

a. Preferred Make.: Toptul/Gedore/ STANLEY or equivalent

b. Quantity required.: 1 set.

Sl. No	Nos. (contents)	Specification/Description
1	1	1/2" Dr. Standard Anvil Super Duty Impact Wrench
-	1	(not less than 600ft-lb / 813Nm)
2	12	1/2" Dr. 6PT Flank Impact Sockets
	12	(10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 24 mm)
3	3	1/2" Dr. 6PT Flank Pro-Series Thin Wall Deep Impact
		Sockets With Plastic Sleeves
		(17, 19, 21 mm)
4	1	1/2" Dr. Impact Extension Bar - 5" (L)
5	1	1/2" Dr. Impact Universal Joint





Figure 11: To be used only as sample picture.



14.0 1/2" DR. Air Ratchet Wrench

a. Preferred Make.: Toptul/Gedore/STANLEY or equivalent

b. Quantity required.: 1 set.

Sl. No	Particulars	Specification
1	Max. Torque	Not less than 70 ft-lb / 95 Nm
2	Free Speed	Not less than 160 RPM
3	Air Pressure	90 PSI / 6.2 BAR
4	Air Consumption	3.92 CFM
5	Air Inlet	1/4" PT
6	Min. Air Hose	5/16" I.D.
7	Overall Length	Not less than 10-1/2" / 266 mm
8	Net Weight	Not less than 2.64 lbs / 1.2 kgs



Figure 12: To be used only as sample picture.



15.0 Angle Grinder

a. Preferred Make.: BOSCH/STANLEY or equivalent

b. Quantity required.: 3 sets.

Sl. No	Particulars	Specification
1	Rated input power	Not less than 2000 W
2	No-load speed	6500 rpm
3	Disc diameter	Not less than 180 mm
4	Grinding spindle thread	M 14
5	Switch	2-way

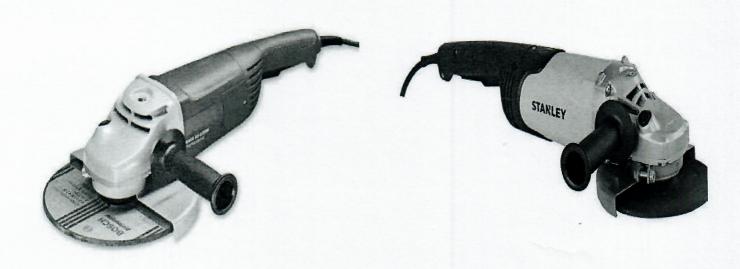


Figure 13: To be used only as sample picture.



16.0 Hand operated palette trolley

a. Preferred Make.: LMI/SWIFT/UTKAL or equivalent

b. Quantity required.: 2 sets.

Specification
minimum 2500 Kg
not less than 1150 mm
not less than 550 mm
not less than 80 mm
not less than 200 mm
not less than 200 x 50 mm
not less than 80x70 mm

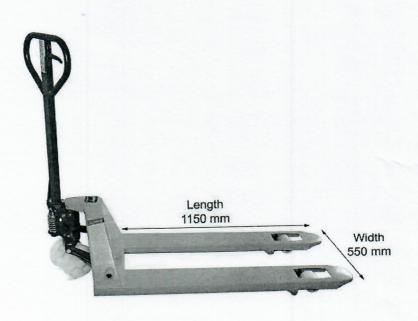


Figure 14: To be used only as sample picture



17.0 Hand operated palette trolley

a. Preferred Make.: LMI/SWIFT/UTKAL or equivalent

b. Quantity required.: 2 sets.

Particulars	Specification
Lift Capacity	minimum 4000 Kg
	not less than 1150 mm
	not less than 550 mm
	not less than 80 mm
	not less than 200 mm
	not less than 200 x 50 mm
Roller Small	not less than 80x70 mm
	Lift Capacity Fork Length Width Overall Fork Lower Fork Height Max Lifting Height Steering Wheel



Figure 15: To be used only as sample picture



18.0 Master tool set (150 pcs)

a. Preferred Make.: Stanley/Dewalt/Black and Decker/Gedore or equivalent

b. Quantity required.: 2 sets.

c. Technical Specifications:

Tools to be included in the tool set

Sl. No	Nos. (contents)	Specification/Description	
	10	Drive 6 point inch sockets 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2	
1		1/4, Dr 6 point metric sockets : 4, 5, 6, 7, 8, 9, 10, 11, 12,13mm	
2	10	1/4, Dr 6 point metric sockets: 1, 5, 6, 7, 8, 9mm	
3	6	a very Dr. Dhilling hit sockets: 1 2 3	
4	3	3/8", Dr Phillips bit sockets: 1, 2, 5 3/8, Dr 6 point inch sockets: 3/8, 7/16, Å, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8	
5	9	3/8, Dr 6 point metric sockets : 3/6, 11, 12, 13, 14, 15mm	
6	6	3/8, Drive deep 6 point metric society 3/8, 2/8, Dr extension bar - locking : 3, 6	
7	2	3/8, Dr extension bar - locking : 3, 6 3/8, Dr spark plug metric sockets : 16, 21mm	
8	2	1/2, Drive deep 6 point metric sockets: 10, 12, 13, 14, 17, 19mm	
9	6	1/2, Drive deep 6 point metric sockets: 16, 12, 12, 13, 13, 10, 21, 21, 21, 21, 21, 21, 21, 21, 21, 21	
10	8	3/8, Drive 6 point Torx sockets : E6, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E17, E18, E19, E19, E19, E19, E19, E19, E19, E19	
11	11	3/8, Drive 6 point metric sockets : 9, 10, 11, 12, 13, 13, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13	
12	4	1/2, Drive impact 6 point metric sockets : 17,19, 21,29 km	
13	4	1/2, Drive 12 point inch sockets: 15/16, 1, 1-1/16, 1-1/4	
14	7	1/2, Drive 12 point metric sockets : 20, 21, 22,24,27, 30, 32mm	
15	6	3/8, Drive hex bit sockets: 3, 4, 5, 6, 8, 10mm	
16	3	3/8, Drive Pozidrive bit sockets: #1, #2, #3	
		Full polish long panel combination wrenches: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17	
		18, 19mm	
18	3	double box reversal metric ratcheting wrenches: 8x9, 12x13, 17x19mm	
19	7	1/4, Drive Torx (hole) bit: T-10, T-15, T-20, T-25, T-27, T-30, T-40	
20	10	Hex key: 1.5, 2.0, 2.5, 3.0, 4, 5, 6, 7, 8, 10mm	
21	1	1/4, Drive pear head ratchet with comfort grip	
22	1	1/4, Drive extension bar 100mm	
23	1	1/4, spinner handler	
24	6	1/2, Drive deep 6 point metric sockets: 10, 12, 13, 14, 17, 19mm	
25	2	1/2 Drive extension bar : 5, 10 (125, 150mm)	
26	3	3/8, Drive slotted bit sockets: 4.0, 5.5, 6.5mm	
27	7	3/8, Drive Stotted bit sockets: He, 45, T-40, T-45, T-50, T-55, T-60	
28		1/4, Drive Universal Joint	
29		1/4 Drive adopter	
30		3/8, Drive Universal Joint	

-		
31	1	1/2, Drive pear head ratchet with comfort grip
32	1	3/8 Drive pear head ratchet with comfort grip
33	1	1/2, Drive Universal Joint



Figure 16: To be used only as sample picture

Standard Accessories to be included:

- a) Compact Case for easy transport and storage.
- b) Meet or exceed applicable ANSI and DIN standards. Double nickel chromium alloy coated tip reduces corrosion.
- c) Locking mechanism retains sockets to make work safer and more productive.
- d) Patented gripping designed to outperform conventional drive configuration.
- e) Reduces the chance of rounding fastener corners and extends fastener life enables to turn worn or rounded fasteners.



19.0 Master tool set (132 pcs)

a. Preferred Make.: Stanley/Dewalt/Black and Decker/Gedore or equivalent

b. Quantity required.: 2 sets.

c. Technical Specifications:

Tools to be included in the tool set

Sl. No	Nos. (contents)	Specification/Description
1	1	1/2" Drive Pear Head Ratchet Handle.
2	1	1/2" Drive Flex Handle: 375mm.
3	3	1/2" Drive Extension Bars: 75, 125 & 250mm.
4	1	
5	15	1/2" Drive 12 Point Imperial Sockets: 3/8, 7/16, 1/2, 9/16, 5/6, 11/16, 5/7, 1/2/9/16
6	18	1/2" Drive 12 Point Metric Sockets: 10, 11, 12, 13, 14, 13, 10, 17, 16, 13, 24, 22, 23, 24, 27, 30 & 32mm.
7	2	1/2" Drive 6 Point Spark Plug Sockets: 5/8 & 13/16".
8	1	1/4" Drive Pear Head Ratchet Handle.
9	2	1/4" Drive Extension Bars: 50 & 150mm.
10	1	1/4" Drive Universal Joint.
11	1	1/4" Drive Bit Holder.
12	1	1/4" Drive Spinner Handle.
13	7	1/4" Drive 6 Point Imperial Sockets: 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 5/6.
14	9	1/4" Drive 6 Point Metric Sockets: 4, 4.5, 5, 5.5, 6, 7, 8, 9 & 1011111.
15	7	L. social Combination Spanners: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16 & 5/4.
16	12	Metric Combination Spanners: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 & 19mm.
17	33	Assorted 1/4" Drive Bits - 25mm.
18	9	Hex Key Set, Long Ball Type: 1.5, 2, 235, 3, 4, 5, 6, 8 & 10.
19	1	300mm Chrome Adjustable Wrench.
20	1	178mm Combination Pliers.
21	1	152mm Diagonal Cutting Pliers.
22	1	152mm Long Nose Pliers.
23	2	Phillips Screwdrivers: PH1x100 & PH2x150mm.
24	2	Slotted Screwdrivers: 5x100 & 6x150mm.



Figure 17: To be used only as sample picture

- a) Compact Case for easy transport and storage.
- b) Meet or exceed applicable ANSI and DIN standards. Double nickel chromium alloy coated tip reduces corrosion.
- c) Locking mechanism retains sockets to make work safer and more productive.
- d) Patented gripping designed to outperform conventional drive configuration.
- e) Reduces the chance of rounding fastener corners and extends fastener life enables to turn worn or rounded fasteners.

2-Speed Magnetic Drill Press 20.0

- a. Preferred Make.: Dewalt/ Bosch/Stanley/Makita/Black & Decker or equivalent
- b. Quantity required.: 1 set.

Sl. No	Particulars	Specification	NO
1	Power	Not less than 1200W	
2	Chuck capacity	16 mm (5/8")	C
2	Magnetic clamping force	Minimum 9,300N (950kg)	
3		Not less than Steel: 50 mm (2")	
4	Drill Capacity	Not less than 250 / 450	
5	No load speed (rpm)	Not less than 2507 to	

6 N	et Weight	Not less than 15 kg

Standard Accessories to be included

- 1. Integral oil feed steady.
- 2. Safety chain.
- 3. Quick Change Keyed Chuck.
- 4. Kit box, etc.



Figure 18: To be used only as sample picture

21.0 Manual A3 paper cutter

a. Preferred Make.: N. S. Enterprises/ Engineering Drawing Equipment or equivalent

b. Quantity required.: 1 No.

Sl. No	Particulars/ Description
1	The body of the cutter should be made from heavy duty steel
2	The cutter should include razor sharp, hardened steel blade, heavy duty, extra-long
	metal handle and adjustable side gauge
3	The A3 paper cutter should be able to easily cut through 400 sheets of 80g paper.
4	Should have grids in inches/cm

5	The A3 paper cutter includes a locking mechanism for two handed operation.
6	The A3 paper cutter includes a razor sharp hardened steel blade that is designed to
	easily handle all your cutting needs



Figure 19: To be used only as sample picture

22.0 Rotary Hammer with SDS plus

a. Preferred Make.: Dewalt/ Bosch/Stanley/Makita/Black & Decker or equivalent

b. Quantity required: 1 Set.

Sl. No	Particulars	Specifications
1	Rated Input power	800W
2	Impact energy	Not less than 2.7J
3	Impact rate at rated speed	0-4,000bpm
4	Rated speed	0-900 rpm
5	Weight	Not less than 2.7 kg
6	Voltage	240 V
	Drilling range	and the state of t
7	Drilling dia. concrete, hammer drill bits	4-26 mm
8	Opt. appl. range concrete, hammer drill bits	8-16 mm
9	Drilling diameter in concrete with core	68 mm

	cutters	
10	Max. drilling diameter in metal	13 mm
11	Max. drilling diameter in wood	30 mm



Figure 20: To be used only as sample picture



Lot 3-Testing Equipment

1.0 General

1.1 Scope of supply

This section covers the supply for following Testing equipment which includes the preferred make, quantity, technical specifications and also the supply of Spares and consumables which are all to be delivered and unloaded at BPC store of GIS, Jigmeling, Gelephu.

2.0 Digital Clamp on Multi-meter

- a. Preferred Make.: Hioki (Hioki 3280-10)/Megger/Kyoritsu or equivalent
- b. Quantity required.: 5 sets.

c. Technical Specifications:

Sl. No	Particulars	Specification
1	AC Current range	41.99 to 1000 A, 3 ranges (50 to 60 Hz, Average rectified), Basic accuracy: ±1.5 % rdg. ±5 dgt.
2	DC Voltage range	419.9 mV to 600 V, 5 ranges, Basic accuracy: ±1.0 % rdg. ±3 dgt.
3	AC Voltage range	4.199 V to 600 V, 4 ranges (45 to 500 Hz, Average rectified), Basic accuracy: ±1.8 % rdg. ±7 dgt.
4	Resistance range	419.9 Ω to 41.99 M Ω , 6 ranges, Basic accuracy: ± 2 % rdg. ± 4 dgt.
5	Other functions	Continuity: Buzzer sounds at 50 Ω ±40 Ω or less, Data hold, Auto power save, Drop-proof from height of 1 meter
6	Display	LCD, max. 4199 dgt., Display refresh rate: 400 ms
7	Environmental protection	IP40 dustproof and waterproof
8	Power supply	Coin type lithium battery (CR2032) ×1, Continuous use 120 hours
9	Core jaw dia.	φ 33 mm (1.30 in)
10	Dimensions and mass	57 mm (2.24 in) W × 175 mm (6.89 in) H × 16 mm (0.63 in) D, 100 g (3.5 oz)
11	Accessories	CARRYING CASE 9398 ×1, TEST LEAD L9208 ×1, Coin type lithium battery (CR2032) ×1, Instruction manual ×1





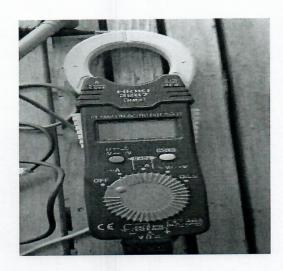


Figure 1: To be used only as sample picture

3.0 Transformer oil test kit

- **a. Preferred Make**.: Megger (OTS100AF)/ The Motwane Manufacturing Company Private Limited/UDEYRAJ ELECTRICALS PVT.LTD/KharkovEnergoPribor Ltd(KEP) or equivalent
- b. Quantity required.: 1 set.
- c. Technical Specifications:

Sl. No	Particulars	Specification
1	Test Voltage	0 to 100 kV rms maximum (50 kV - 0 - 50 kV)
2	Voltage rise time	0.5 kV/s, 2.0 kV/s or 3 kV/s depending on selected test standard
3	Voltage rise time accuracy	better than 5%
4	Voltage resolution and accuracy	$0.1 \text{ kV} \pm 1\% \pm 2 \text{ digits}$
5	Vessels	400 ml (standard), 150 ml (option) Thermoplastic polyamide chamber provides precision electrode alignment, adjustment wheels lock electrodes in position
6	Temperature sensor resolution	1 °C
7	Power Supply Line voltage 85 to 265 VAC, Line frequency 5	

8	Batteries (optional)	Lead Acid 2 x 12 V 4 Ah, or NiMH 24 V 2 Ah
9	Line frequency	48 / 63 Hz
10	Internal printer	Dot matrix impact printer with graphical output Paper 57.5 mm wide, weight 52 gm per roll Epson black ribbon cassette ERC-09B Protection Safety interlock on test chamber Discharge barrier on polycarbonate test chamber cover
11	Display	320 x 240 QVGA color display with backlight
12	Operating temperature	0 °C to +50 °C
13	Storage temperature	-30 °C to +65 °C
14	Humidity	80% RH at 40 °C operation 95% RH at 40 °C storage Altitude 1000 m
15	Language	English
16	Safety	Designed in accordance with IEC61010 EMC Light industrial IEC 61326-1 Class B, CISPR 22, CISPR 16-1 and CISPR 16-2 18



Figure 2: To be used only as sample picture



4.0 HV test set

- **a.** Scope: The scope of this machine are supply, *installation and commissioning* at the store of GIS, Jigmeling, Gelephu.
- **b. Preferred Make**.: Megger (HPA 130 DC) /UDEYRAJ ELECTRICALS PVT.LTD/KharkovEnergoPribor Ltd(KEP) or equivalent
- c. Quantity required.: 1 set.

d. Technical Specifications:

Sl. No	Particulars	Specification
1	Power consumption	5 kVA
2	Power consumption short-time	7.5 kVA
3	Input voltage	230 V / 50 60 Hz
4	Output voltage	0 130 kV DC
5	Measuring range	0 100 kV _{RMS} AC
		0 150 kV DC
6	Precision	2,5 %
7	Output current	0 50 mA _{RMS} continous,
		75 mA _{RMS} short circuit current (1 h)
8	Measuring range	0 1 / 0 10 / 0100 mA _{RMS} AC
		0 0.1 / 0 1 / 0 10 / 0100 mA DC
9	Precision	2,5 %
10	PD at rated voltage	< 1 pC

Additional technical data:

- High power AC test set
- Ideal for testing of HV-components such as switchgear, bus-bars etc.
- Suitable for sensitive PD measurements
- Built-in overcurrent protection
- Two-piece design.





Figure 3: To be used only as sample picture.



5.0 Insulation Resistant tester

- a. Preferred Make.: Megger (MIT 1025)/Hioki/UDEYRAJ ELECTRICALS PVT.LTD or equivalent
- b. Quantity required.: 1 set.
- c. Technical Specifications:

Sl. No	Particulars	Specification		
1	A.C. voltage (auto-ranging)	90-264 V rms, 47- 63 Hz 100 VA		
2	Test voltage	500 V, 1000 V, 2500 V, 5000 V, 10000 V		
3	Lock test voltage	100 VL to 1 kV in 10 V steps, 1 kV to 5 kV in 25 V steps, 5 kV to 15 kV in 25 V steps		
4	Test voltage accuracy	+4%, -0%, ±10 V nominal test, voltage at 1 GΩ load (0°C to 30°C)		
5	Resistance range	$10~\text{k}\Omega$ to $15~\text{T}\Omega$ @ $5~\text{kV}$, $10~\text{k}\Omega$ to $20~\text{T}\Omega$ @ $10~\text{kV}$.		
6		10 kV 5000 V 2500 V 1000 V 500 V		
		$\pm 5\%$ from $1M\Omega$ to		
	Accuracy	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		
		$\pm 20\%$ from $1 \text{M}\Omega$ to		
		$\boxed{20\text{T}\Omega}$ $\boxed{10\text{T}\Omega}$ $\boxed{5\text{T}\Omega}$ $\boxed{2\text{T}\Omega}$ $\boxed{1\text{T}\Omega}$		
7	Short circuit / charge current	3 mA @ 5 kV, 10 kV, 15 kV		
8	Insulation test alarm	$100~\mathrm{k}\Omega$ to $10~\mathrm{G}\Omega$		
9	Capacitor charge	<5 s/ μ F at 3 mA to 10 kV		
10	Capacitor discharge	<250 ms/μF to discharge from 10000 V to 50 V		
11	Battery life	4.5 hours (typical) continuous testing at 10 with a 100 M Ω load		
12	Capacitance range	10 nF to 25 μF		
13	Capacitance measurement accuracy	±10% ±5 nF		
14	Current range	0.01 nA to 6 mA		
15	Current accuracy	$\pm 5\% \pm 0.2$ nA at all voltages (20 °C)		
16	Interference	3 mA from 960 V to 10 kV		
17	Voltmeter range	30 V to 660 V a.c. or d.c., 45Hz – 65Hz		

18	Voltmeter accuracy	±3%, ±3 V

Additional technical data:

- Insulation resistance up to 20 T Ω @ 10kV.
- Measures capacitance of test object (with test voltages over 5000 V)
- IR, Timed IR, DAR, PI, DD, SV and Ramp diagnostic tests
- High current 3 mA short circuit current
- High noise immunity 3 mA (5 kV and 10 kV) 6 mA (15 kV) of noise rejection
- Li-ion battery up to 6 hrs continuous testing @ 5 kV with a 100M load, battery meets IEC 213
- Large LCD display with backlight
- Dedicated voltmeter function (30 V to 660 V)
- Advanced memory, on screen recall and real time clock for date / time stamped results
- Download of on-board results via USB interface
- Recorded temperature (measured by independent instruments) can be save with test result.
- Power DB Lite asset management software
- Safety rated at CAT IV 600 V (maintained to 3000 m altitude)



Figure 4: To be used only as sample picture.



6.0 DVDF test set

- **a.** Scope: The scope of this machine are supply, *installation and commissioning* at the store of GIS, Jigmeling, Gelephu.
- b. Preferred Make.: Ajit electronics co./ Rectifiers and Electronics or equivalent
- c. Quantity required.: 1 set.

d. Technical Specifications:

Sl. No	Particulars	Specification
1	Input voltage	415V 3 phase 4 wire, AC 50Hz
2		0-1300V minimum, 3 phase, 125 Hz (+3%)
-	Output voltage	continuously variable.
3	Output Frequency	125Hz +/- 3 %
4	Capacity	Not less than 15kVA
5		Digital: Frequency meter, 3 phase Voltmeter,
		3 phase Ammeter (should be able to measure
	Metering	all the phases independently)
6	Duty Cycle	50 %
7	Trip	Selectable in 4 steps. Cuts off output
8	Timer Digital countdown timer	
9		Manual by motorized continuously variable
	Output Control	auto transformer
10	Indicators	'R-Y-B', READY, TRIP
11	Cooling	AN
12		Two units, one MG Set mounted on bed, open
		execution and second control unit. M.S. angle
		frame work with sheet steel cabinet for
		control unit, painted in power coat. Both
	Construction	generating unit and the drive motor should be
		mounted on a common metallic frame and
		properly aligned and balanced as per the
		standard.
	La	

Additional technical details:

A. General

This test setup is generally used to perform induced voltage test on the transformers. This set up should consist of the USED motor and generator combination to develop the required voltage and frequency. Both generating unit and the drive motor are mounted on a common metallic frame.

Generating Unit

Capacity: Suitable to test the distribution transformers.

The input and output are terminated on the suitable terminals on the unit.

Preferred Make: KIRLOSKAR / CROMPTON / AEC / SIEMENS / NGEF (OR

EQUIVALENT)

Driving Unit

Input: 415 V three phase, 50 Hz through the DOL /Star Delta starter.

RPM: 1440 OR ANY SUITABLE SPEED (OR EQUIVALENT)

The input supply terminals are terminated on the suitable terminals on the unit.

Preferred Make: KIRLOSKAR / CROMPTON / AEC / SIEMENS / NGEF (OR

EQUIVALENT)

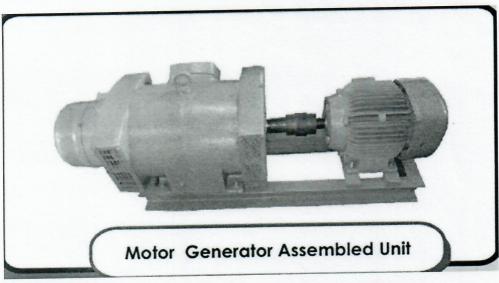


Figure 8: To be used only as sample picture

B. Control Panel Unit

This unit is should be housed in sheet metal wall mounting type, seven tank process powder coated cabinet.

The control panel should consist of the following:

- Rotary switch for power ON /OFF.
- A contactor controlled push button or rotary switch for o/p ON/OFF.
- 3.5-digit digital ammeter with CT and an ammeter selector switch to indicate the output current 01 No.
- 3.5-digit digital voltmeter with selector switch to indicate the output voltage 1 No.
- A digital frequency meter to indicate input or output frequency.
- A DOL / Star Delta starter suitable for the driving motor to be provided.
- Push button of ELCOM Preferred Make to start and stop the driving motor.

BPC THIMPHU

- Input and output indicators to be provided.
- Fuse Protection in Input and output to be provided.

Dimmerstat Unit:

- Input: 415 V AC 50 Hz three phase.
- Output: 0 470 V AC variable.
- Output current: Depending upon kVA Rating of the transformer under test.



Figure 8: To be used only as sample picture



Lot 4- Spares and consumables

This section includes the item samples for the Lot. The pictures depicted here are for references only.

ITEM SAMPLE

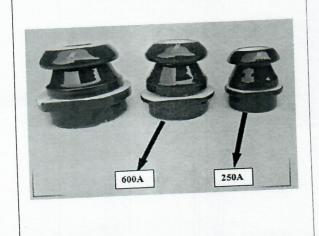
Transformer Bushing 11kV



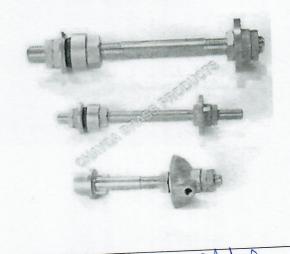
Transformer Bushing, 33kV

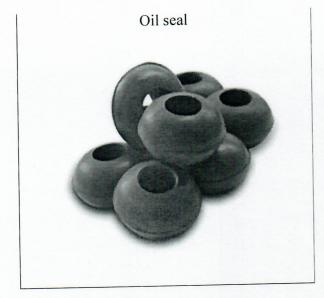


Transformer Bushing 1.1kV

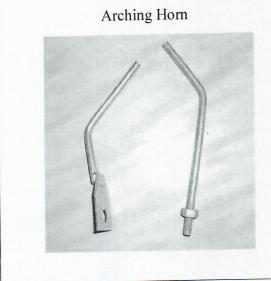


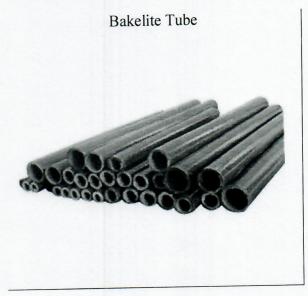
Transformer Bushing Stud Set





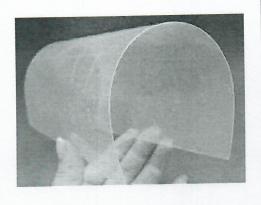








Oil Level Indicator Glass



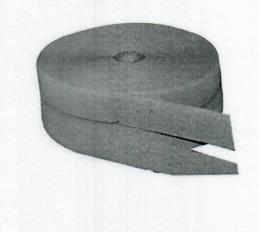
Ampere Tape



Transformer Breather

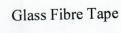


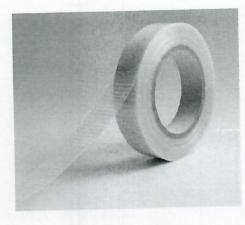
Kraft Insulation Paper











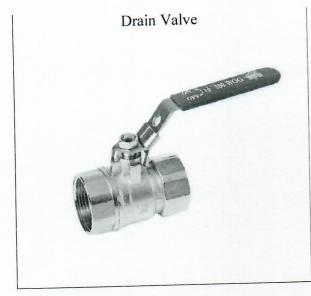
Black Rubber Gasket

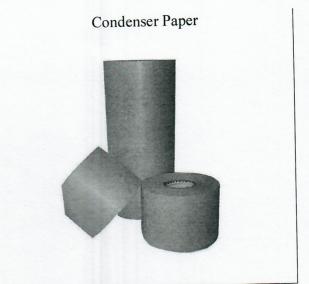


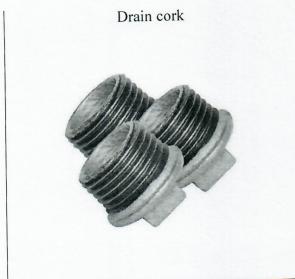
Teflon Tape







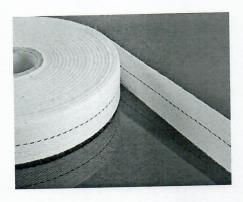








Cotton Tape



Heat Sinking Tube



Industrial Tape



MS Thread Bar





Border Strip Paper



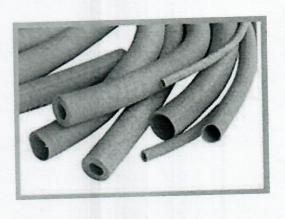
Fibre Sleeve



Presspan Paper



Crepe Tube Paper









PART 3- Contract



Section VI. General Conditions of Contract

Table of Contents

1.	Definitions4
2.	Use of Contract Documents and Information
3.	Change Orders5
4.	Contract Amendments
5.	Subcontracts6
6.	Country of Origin
7.	Inspection and Tests
8.	Packing and Documents
9.	Delivery and Documents
10.	Patent Indemnity8
11.	Performance Security8
12.	Insurance 9
13.	Warranty9
14.	Payment
15.	Contract Prices. 10
16.	Contract Execution Schedule and Extensions in the Supplier's Performance10
17.	Liquidated Damages
18.	Termination for Default
19.	Termination for insolvency
20.	Termination for Convenience
21.	Resolution of Disputes
22.	Applicable Law

Section VI- General Conditions of Contract

23.	Force Majeure	13
24.	Assignment	13
	Contract Language	
26.	Taxes and Duties	14
27.	Waiver	14
28.	Limitation of Liability	14
29.	Export Restriction	14



Section VI. General Conditions of Contract (GCC)

1.	Defini	tions	
1.1	In this Contract, unless the contract otherwise requires, the term:		
	(a)	"The Contract" means any lawful agreement entered into between the Purchaser and the Supplier, as recorded in the Contract Agreement signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.	
	(b)	"Contract Documents" means the documents listed in the Agreement, including any amendments thereto.	
	(c)	"The Contract Price" means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions there from as may be made pursuant to the Contract.	
	(d)	"The Goods" means all the equipment, machinery, and/or other materials, which the Supplier is required to supply to the Purchaser under the Contract.	
	(e)	"The Services" means those services ancillary to the supply of the Goods, such as transportation and Insurance, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.	
	(f)	"The Purchaser" means the entity purchasing the Goods and Related Services, as specified in the SCC.	
	(h)	"The Supplier" means the individual or firm supplying the Goods and Services under the Contract.	
	(i)	"Day" means calendar day.	
	(j)	"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.	
	(k)	"SCC" means Special Conditions of Contract.	
	(1)	"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.	
	(m)	"Incoterms' means a series of international sales terms, published by the International Chamber of Commerce (ICC) in Paris, France.	

2.	Use of	Contract Documents and Information
2.1	The S	Supplier shall not, without the Purchaser's prior written consent, disclose the
	Contra inform person Disclo	act, or any provision thereof, or any specification, drawings, pattern, sample or nation furnished by or on behalf of the Purchaser in connection therewith, to any nother than a person employed by the Supplier in the Performance of the Contract. It is sure to any such employed person shall be made in confidence and shall extend to far as may be necessary for purposes of such performance.
2.2	docun	applier shall not, without the Purchaser's prior written consent, make use of any nent or information specified in GCC Clause 2.1 above, except for purposes of ming the Contract.
2.3	Any document, other than the Contract itself, specified in GCC Clause 2.1 above, shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser, on completion of the Supplier's performance under the Contract, if so required by the Purchaser.	
3.	Chang	e Orders
3.1	The P within	urchaser may at any time, by a written notice to the Supplier, make changes the general scope of the Contract in any one or more of the following:
	(a)	Decrease or increase in quantity within the delivery period.
	(b)	Drawings, designs or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser; or
	(c)	The method of shipment or packing; or
	(d)	The place of delivery.
	(e)	The Related Services to be provided by the Supplier.
3.2	If any such change causes an increase or decreases 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 Twenty-eight (28) days from date of the Supplier's receipt of the Purchaser's change order.	
3.3	Prices to be charged by the Supplier for any Related Services that might be needed but which were no 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.	
3.4	the Pr	upplier shall not perform changes in accordance with GCC Clause 3.1 above until urchaser has authorized a change order in writing on the basis of the estimate led by the Supplier as described in GCC Clause 3.2 above.

3.5	Changes mutually agreed upon as a Change shall constitute a part of the work under this Contract, and the provisions and conditions of the Contract shall apply to the said change.	
4.	Contract Amendments	
4.1	Subject to Clause 3, no variation in or modification of the contract shall be made except by written amendment agreed and signed by the parties.	
5.	Subcontracting	
5.1	The Supplier shall not subcontract all or any part of the Contract without first obtaining the Purchaser's approval in writing of the subcontracting.	
5.2	The supplier guarantees that any and all subcontractors of the Supplier to performance of any part of the work under the Contract will comply fully with the terms of the Contract applicable to such part of the work under the Contract and shall not relieve the Supplier of any of its obligations, duties, responsibilities or liabilities under the Contract.	
6.	Country of Origin	
6.1	All Goods supplied under the Contract shall have their origin in eligible countries if these eligible countries are specified in the Special Conditions of Contract. For purposes of this Clause, "origin" shall be considered to be the place where the Goods were mined, grown or produced. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility form its components.	
7.	Inspection and Tests	
7.1	The Purchaser or its representative shall have the right to inspect and /or to test the Goods to confirm their conformity to the Specifications. 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 specified in Section V, Schedule of Supply. The Purchaser shall notify the Supplier in writing of the identity of representatives nominated for these purposes.	
7.2	The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the Goods' final destination, or in a place in Bhutan as specified in SCC. Where conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser. The supplier shall also furnish copies of relevant reference IS documents or other relevant standards and test certificates for electrical equipment if specified in Section V, Schedule of Supply.	

7.3	As specified in SCC, whenever the Supplier is ready to carry out any such test and inspection, it shall give reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or it's designated representative to attend the test and/or inspection.
7.4	The Purchaser shall reject any Goods or any part thereof that fail to conform to the Specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make all 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 Clause 7.3 above.
7.5	The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Bhutan shall in no way be limited or waived by reason of the Goods' having previously been inspected, tested and passed by the Purchaser or its representatives prior to the Goods' shipment from the country of origin.
7.6	The Supplier shall ensure that all the materials are ready during the time of inspection. In case the materials are to be re-inspected due to reasons which are attributable to the supplier, the same shall be done at the cost of the supplier.
7.7	Nothing in this Clause 7 shall in any way release the Supplier from any Warranty or other obligations under the Contract.
8.	Packing and Documents
8.1	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 per the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size 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.
8.2	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 Section V, Schedule of Supply and in any subsequent instructions ordered by the Purchaser.
9.	Delivery and Documents
9.1	Delivery of the Goods shall be made by the Supplier in accordance with the Section V, Schedule of Supply. The details of shipping and/or other documents to be furnished by the Supplier are specified in the SCC.
9.2	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 there under shall be as prescribed by Incoterms.

9.3	The terms EXW,CIP, CIF, DDP, and other trade terms used to described obligations of the parties shall be governed by the rules prescribed in the Chamber of Commerce, Paris	e current
10. J	demnity against infringement of Intellectual Property Rights	
10.1	The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Cla indemnify and hold harmless the Purchaser and its employee(s) or represe from and against any and all suits, actions or administrative proceedings demands, losses, damages, costs and expenses of any nature, including attorn and expenses, which the Purchaser may suffer as a result of any infringement of infringement of any patent, utility model, registered design, trademark, cop other intellectual property right registered or otherwise existing at the da Contract by reason of:	ntative(s) s, claims, ney's fees or alleged byright or te of the
	(a) The installation of the Goods by the Supplier or the use of the Bhutan; and	Goods in
	(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 of for the purpose indicated by or reasonably to be inferred from the Contract any infringement resulting from the use of the Goods or any part thereof products produced thereby in association or combination with any other equal to materials not supplied by the Supplier, pursuant to the Contract.	et, neither of, or any
10.2	If any proceedings are brought or any claim is made against the Purchase out of the matters referred to in GCC Sub-Clause 10.1, the Purchaser shall give the Supplier notice thereof, and the Supplier may at its own expense such proceedings or claim and any negotiations for the settlement of proceedings or claim.	promptly conduct
10.3	The Purchaser may, at the Supplier's request, afford all available assistant Supplier in conducting such proceedings or claim, and shall be reimburse Supplier for all reasonable expenses incurred in so doing.	ce to the
10.4	The Purchaser shall indemnify and hold harmless the Supplier and its en officers and Subcontractors from and against any and all suits, as administrative proceedings, claims, demands, losses, damages, costs and of any nature, including attorney's fees and expenses, which the Supp suffer as a result of any infringement or alleged infringement of any pate model, registered design, trademark, copyright or other intellectual proper registered or otherwise existing at the date of the Contract arising out connection with any design, data, drawing, specification or other documaterials provided or designed by or on behalf of the Purchaser.	expenses olier may nt, utility erty right of or in
11.	erformance Security	
11.1	The Supplier shall within fifteen (15) working days of notification	f contract

	•	in the amount and currency specified in the	
	award, p	rovide Performance Security in the amount and currency specified in the	
11.2	The proceeds of the Performance Security shall be payable to the Purchaser as compensation from the Supplier's failure to complete its obligations under the Contract. The Performance Security is a security taken by the purchaser for due performance of the Contract and shall be forfeited if the Supplier fails without any legal excuse, to perform any promises that form the whole or part of a Contract or any agreement without need of establishing any loss incurred by the Purchaser. The Supplier shall cause the validity period of the Performance Security to be extended for such period(s) as the contract performance may be extended pursuant to GCC Clause 16.2.		
11.3	or in a fre	formance Security shall be denominated in a currency (ies) of the Contract, eely convertible currency acceptable to the Purchaser and shall be in one of wing forms:	
	(a)	Unconditional bank guarantee issued by a reputable financial institution acceptable to the Purchaser, in the form provided for in the Contract or in any other form acceptable to the Purchaser; or	
	(b)	Banker's Cheque/Cash Warrant; or	
	(c)	Demand Draft.	
11.4	located o	nstitution issuing the Performance Security furnished by the Bidder is putside the Purchaser's country, the Performance Security shall be countered by a correspondent financial institutions located in the Purchaser's o make it enforceable.	
11.5	The Perfo Supplier Supplier'	formance Security shall be discharged by the Purchaser and returned to the not later than thirty (30) days following the date of completion of the s performance obligations or any pending contractual issues arising under eact, or any warranty obligations, unless specified otherwise in the SCC.	
12.	Insurance		
12.1	of Contr transport	ds supplied under the Contract shall be fully insured in the currency act against loss or damage incidental to manufacture or acquisition, ation, storage and delivery, in accordance with the applicable Incoterms or inner specified in the SCC.	
13.	Warranty		
13.1	will com	plier warrants to the Purchaser that the Goods supplied under the Contract uply strictly with Contract and shall be free from defects arising from any mission of the Supplier or arising from design, materials, and workmanship rmal use in the conditions prevailing in the country of final destinations.	
13.2	Unless of (12) more	therwise specified in the SCC, the warranty shall remain valid for twelve on the after the Goods, or any portion thereof, as the case may be, have been.	

	delivered to and accepted at the final destination indicated in SCC.
13.3	The Purchaser shall notify the Supplier in writing 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.
13.4	Upon receipt of such notice, the Supplier shall, within the period specified in the SCC repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
13.5	If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in 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 or remedies, which the Purchaser may have against the Supplier under the Contract.
14.	Payment
14.1	The method and conditions of payment to be made to the Supplier under the Contract shall be as specified in the SCC.
14.2	The Supplier's request(s) for payment shall be made to the Purchaser in writing accompanied by an invoice describing, as appropriate, the Goods delivered and services performed, and by documents submitted pursuant to GCC Clause 9 and upon fulfilment of other obligations stipulated in the Contract.
14.3	Payment shall be made by the Purchaser, but in no case later than 30 (thirty) days after submission of invoice or request for payment by the Supplier and the Purchaser has accepted it.
14.4	The currency or currencies in which payment is made to the Supplier under the Contract will be made in the currency or currencies specified in SCC.
15.	Contract Prices
15.1	The Contract Price shall be as specified in the Contract Agreement subject to any additions and adjustments thereto or deductions there from as may be made pursuant to the Contract.
15.2	Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, which the exception of any change in price resulting from a Change Order issued in accordance with GCC Clause 3, or if applicable, adjustments authorized in accordance with the price adjustment provisions specified in the SCC.
16.	Contract Execution Schedule and Extensions in the Supplier's Performance
	Delivery of the Goods shall be made by the Supplier in accordance with the
16.1	Delivery of the Goods shall be made of the coppers

	Contrac	t Execution Schedule, pursuant to SCC.	
16.2	The Su Executi	pplier may claim extension of the time limits as set forth in the Contract on Schedule in case of:	
	(a)	Change in the Goods ordered by the Purchaser pursuant to GCC Clause 3;	
	(b)	Delay of any materials, drawings or services, which are to be provided by the Purchaser; services provided by the Purchaser shall be interpreted to include all approvals by the Purchaser under the Contract;	
	(c)	Force Majeure pursuant to GCC Clause 23; and	
	(d)	Delay in performance of work caused by change order or amendment(s) issued by the Purchaser.	
16.3	best en	applier shall demonstrate to the Purchaser's satisfaction that it has used its deavours or overcome such causes for delay, and the parties will mutually pon remedies to mitigate or overcome such causes for delay.	
16.4	Notwithstanding GCC Clause 16.2 above, the Supplier shall not be entitled to are extension of time for completion unless the Supplier, at the time of such circumstances arising, has notified the Purchaser in writing within 10 (Ten) days of any delay that it may claim as caused by circumstances pursuant to GCC Clause 16.2 above; and upon request of the Purchaser, the Supplier shall substantiate that the delay is due to the circumstances referred to by the Supplier.		
17.	Liquidated 1	Damages	
17.1	or to proceed from the specific service up to a maxim	to GCC Clause 16, if the Supplier fails to deliver any or all of the Goods perform the Services within the period(s) specified in the Contract, the ser may without prejudice to its other remedies under the Contract, deduct the Contract Price, as liquidated damages, a sum equivalent to the percentage and in the SCC of the delivered price of the delayed goods or unperformed as for each week or part thereof of delay until actual delivery or performance, a maximum deduction of the percentage specified in the SCC. Once the until seached, the Purchaser may consider termination of the Contract to GCC Clause 18, Termination for Default.	
18.	Termination	n for Default	
18.1	The Purchas written not part:	ser may, without prejudice to any other remedy for breach of Contract, by cice of default sent to the Supplier, terminate the Contract in whole or in	
		If the Supplier fails to deliver any or all of the Goods within the Contract delivery period(s) specified in the Contract, or any extension thereof granted by the Purchaser, pursuant to GCC Clause 16 without the need of waiting	

	1	maximum deduction of percentage specified in GCC Clause 17.1 after
		serving 10 (ten) days notice in writing; or
		serving 10 (ten) days notice in writing, or
		1 vet over its failure
	(b)	If the Supplier, in either of the above circumstances, does not cure its failure within a period of 10 (ten) days (or such longer period as the Purchaser may authorize in writing) after receipt of a notice of default from the Purchaser specifying the nature of the default(s); and
	(c)	If the supplier fails to perform any other obligation(s) under the Contract.
8.2	Subject shall for damage	t to Clause 18.1 above, when the Contract is terminated for default, the Purchaser orfeit the Performance Security and deduct from the contract price, as liquidated es, a sum equivalent to the percentage specified in the SCC of the delayed ed price of the goods accepted by the Purchaser.
19.	Termin	ation for insolvency
19.1	Suppli	archaser may at any time terminate the Contract by giving written notice to the er, without compensation to the Supplier, if the Supplier becomes bankrupt or rise insolvent. Notwithstanding the above, such termination will not prejudice or any right of action or remedy, which has accrued or will accrue thereafter to the aser.
20.	Termin	nation for Convenience
20.1	The Purchaser may, by written notice sent to the Supplier, 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 work under the Contract is terminated, and the date upon which such termination becomes effective.	
20.2	The C	Goods that are complete and ready for shipment within 30 (thirty) days after the
a 1: 1 - f notice of termination shall be buildiased by the		ier's receipt of notice of termination shall be purchased by the Furchase act prices and on the other Contract terms. For the remaining Goods, the Purchase lect:
	(a)	To have any portion thereof completed and delivered at the contract prices and a per the Contract terms; and/or
	(b)	To cancel the remainder and pay to the Supplier an agreed amount for partiall completed Goods and for materials and part previously procured by the Supplier
21	Docal-	ition of Disputes
21.		/ // // // // // // // // // // // // /
21.1	informal negotiation any disagreement or dispute arising between the angel of connection with the Contract.	
	TC - 4	ter 30 (thirty) days from the commencement of such informal negotiations, the naser and the Supplier have been unable to resolve amicably a Contract disput

	either party may require that the dispute be referred for resolution by arbitration as described in Clause 21.3.
21.3	If the dispute is to be settled by arbitration, the Purchaser and the Supplier shall be entitled to appoint one member each, and third arbitrator will be appointed by both of them by mutual consent. If either the Purchaser or the Supplier fails to appoint a representative, or both of them cannot agree on the appointment of a third member within thirty (30) days from the date of agreement to refer the matter for arbitration, then the case will be referred to the proper court in Bhutan for adjudication. The award shall be final and binding on the parties if not appealed within 10 (Ten) working days. If the disputes are settled by Arbitration, the cost of Arbitration shall be borne by both parties equally.
21.4	The arbitrations proceedings shall be conducted in accordance with the rules of procedures specified in SCC.
22.	Applicable Law
22.1	The Contract shall be governed by and interpreted in accordance with the laws of the Bhutan.
23.	Force Majeure
23.1	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. Such delay may be excused as provided in GCC Clause 16, and the period of such delay may be added to the time of performance of the obligation delayed.
23.2	For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, unavoidable, and its origin is not due to negligence or lack of care or other malfeasance 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, strikes, riot, and freight embargoes.
23.2	If a Force Majeure situation arises, the Supplier shall notify the Purchaser in writing of such condition and the cause thereof within 10 (ten) days. 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.
24.	Assignment
24.1	The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

25.	Contract Language		
25.1	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.		
25.2	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.		
26.	Taxes and Duties		
26.1	The Supplier shall bear and pay all applicable taxes, stamp duties, license fees and other similar levies imposed both outside and inside Bhutan, as specified in SCC.		
27.	Waiver		
27.1	Failure of either party to insist upon strict performance by the other party of any provision of the Contract shall in no way be deemed or construed to effect in any way the right of that party to require such performance.		
28.	Limitation of Liability		
28.1	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		
	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.		
29.	Export Restriction		
29.1	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 which substantially impede the Supplier from meeting its obligations 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 Clause 20.



Section VII. Special Conditions of Contract

Table of Contents

1	Definitions	2
1.	Definitions	2
2.	Inspection and Test	2
3.	Packing and Documents	2
4.	Delivery and Documents	3
5.	Performance Security	3
6.	Insurance	3
o .	Warranty	3
7.	Warranty	4
8.	Payment	4
	Contract Prices	
10.	Contract Execution Schedule and Extension in the Supplier's Performance	4
11.	Liquidated Damages	5
12	Resolution of Disputes	5
12.	Taxes and Duties	5
13	Taxes and Duties	



Section VII. Special Conditions of Contract (SCC)

The following Special Conditions of Contract (SCC) shall supplement the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in

1. Defini	Conditions of Contract (GCC). itions The Purchaser is: Central Maintenance Division Project Office, Bhutan Power Corporation Limited, Yarden Lam, Post Box No. 580, Thimphu, Bhutan.
GCC 1.1	The Purchaser is: Central Maintenance Division Project Office, Bhutan Power Corporation Limited, Yarden Lam, Post Box No. 580, Thimphu,
	The consignee is: The Manager, Regional Store Division, Regional Stores Division, Bhutan Power Corporation Limited, Gelephu, Bhutan.
2. Inspec	ection and Test
GCC 7.1	The inspections and tests shall be: Not Applicable
GCC 7.2	Inspections and tests shall be conducted at: Manufacturer's premises.
	All materials shall be inspected and tested as specified in the relevant IEC or BS or IS standards. The supplier must notify the purchaser in writing (and by fax to be confirmed with a mailed copy) within twenty (20) days in advance once the goods are ready for dispatch. This should be notified to purchaser at the following address:
	Attention: Project Director
	Address: Central Maintenance Division Project Office
	Bhutan Power Corporation Limited
	Thimphu: Bhutan
	Telephone: +975-2-330684/325095
	E-mail address: herukazangpo@bpc.bt Copy to : mahendrasubedi@bpc.bt
	The period indicated is for deputing an inspector and has no connection with the stipulated delivery schedule. If the delay in the delivery of all or part of materials has been caused due to delay beyond the maximum allowable period in nominating inspectors by the purchaser after the inspection call has been received in writing by the purchaser, the delivery period shall be extended by the period equivalent to such delay in sending inspectors by the purchaser for the whole or part of the materials.
	To ensure that the goods are delivered in good condition, suppliers/supplier's representatives need to be present for the joint inspection of the goods at the BPC, warehouse and sign the joint inspection report.
3. Pack	ing and Documents
GCC 8.2	The supplier shall pack all the Goods as is required to prevent damage or deterioration in transit to the final destination. The packing should be sufficient to withstand rough handling and exposure to extreme temperatures, salt and precipitation during transit and/or storage as per GCC Clause 8.

4. Deli	very and Documents
GCC 9.1	2. The good level of Calivered at the designated place as specified in Section V, Schedule of Supply. Further, the shipment should be completed within 21 (twenty one) days after inspection/dispatch clearance if the delivery is made from India and within 60 (sixty) days if the delivery is made from Third countries. However, the overall schedule for delivery of the material at the place of delivery as per contract stipulations shall be met and any delay in meeting the schedule will be dealt with as per contract stipulation including but not limited to Liquidated Damages. b. Details of Shipping and other Documents to be furnished by the Supplier after the delivery of goods are: (i) Copies of the Supplier's invoice showing Goods description, quantity, unit price, and total amount; (ii) Suppliers Good Issues Note (Challan); (iii) Copy of import declaration form (B-Form)in Bhutan; (iv) Original tax paid receipt in Bhutan. (v) Manufacturer's or Supplier's warranty certificate; (vi) Packing List;
	(vii) Inspection report/Test Certificate;
GCC 9.2	The meaning of the trade terms shall be as prescribed by Incoterms 2010, read in conjunction with any specific explanation of the tender.
GCC 9.3	The version of Incoterms shall be: 2010, read in conjunction with any specific explanation of the tender.
5. Per	formance Security
GCC 11.1	The amount of Performance Security shall be: 10% of the contract value.
GCC 11.5	Discharge of Performance Security shall take place: As indicated in GCC Sub- Clause 11.5
6. Inst	urance
GCC 12.1	The insurance coverage shall be as specified in the Incoterms 2010.
	rranty
GCC 13.2	The period of validity of the Warranty shall be: Twelve (12) months from the date of acceptance of goods at the place of destination, Regional Store Division, Gelephu, PSD, BPC, Gelephu, Bhutan.
	As a proof of performance warranty, the supplier have to deposit 10% of the supplied value in the form of Bank Guarantee acceptable to the Purchaser which shall be valid for a period not less than twelve (12) months after delivery of last consignment. Or As a proof of performance warranty, the purchaser will not release the 10% retention money to cover the defects liability period which shall be minimum of twelve months after the delivery of the last consignment. However, the payment for the retention amount shall be made provided the Supplier presents request for payment accompanied by a Retention Security in the form of Bank Guarantee issued by a reputable financial institution acceptable to the purchaser for an amount equal

to the amount of retention payment and the validity of the Bank Guarantee shall be not less than twelve (12) months after the delivery of last consignment.

institution issuing the performance warranty bank Financial If the guarantee/retention security bank guarantee furnished by the Bidder is located outside the Purchaser's country, the bank guarantee shall be counter guaranteed by a correspondent financial institution located in the Purchaser's country to make it enforceable.

Payment 8.

Payments shall be made in equivalent Ngultrum to the currency quoted amount but GCC 14.1 the payment shall be made through proper banking channels and the responsibilities of payment transfer and transfer charges lie on the Suppliers.

> Undertaking letter from routing of payment through the Banks (if the payment is not through Letter of Credit) shall not be issued.

- a. Advance Payment: Maximum of ten percent (10%) of the Contract Price as advance payment shall be paid after the signing of the Contract. Payment shall be made provided the Supplier presents a request for payment accompanied by an Advance Payment Security in the form of Bank Guarantee issued by a reputable financial institution acceptable to the purchaser for an amount equal to the amount of the advance payment, and shall be valid until the goods are delivered.
- b. On Acceptance: Eighty percent (80%) of the Contract Price of the goods received shall be paid within Thirty (30) days of receipt of the goods upon the submission of a claim supported by the Acceptance Certificate issued by the Purchaser.
- c. Retention Payment: Ten percent (10%) of the Contract Price will be payable after the expiry of defects liability period (for a period not exceeding twelve months after the delivery of all materials). However, payment shall be made provided the Supplier presents a request for payment accompanied by a Retention Security in the form of Bank Guarantee issued by a reputable financial institution acceptable to the purchaser for an amount equal to the amount of retention payment and shall be valid for a period not less than twelve (12) months after delivery of all materials.

If the Financial institution issuing the advance payment bank guarantee/retention security bank guarantee furnished by the Bidder is located outside the Purchaser's country, the bank guarantee shall be counter guaranteed by a correspondent financial institution located in the Purchaser's country to make it enforceable.

Contract Prices

The prices charged for the Goods supplied and the related Services performed shall GCC 15.2 not be adjustable.

Contract Execution Schedule and Extension in the Supplier's Performance 10.

The contract shall be executed as per Contract Execution Schedule given below: CMDI GCC 16.1

a) The commencement of the contract period shall be assumed from the date of

signing of the contract agreement if an agreement is executed; otherwise the notification of award is an acceptance and shall constitute a contract between the parties.

1		Remarks
Days	Activity	Kemurks

- b) The Supplier shall be responsible for supplying three (3) copies of correct drawings to BPC for approval in the template provided in Section V, Schedule of Supply. Any errors or omission shall be to the Suppliers account and delays caused due to the need to rectify unclear/unacceptable drawings shall not be justification for time extension. BPC will take fifteen (15) working days for the drawing approval from the receipt date.
- c) The Supplier shall submit a detailed program covering the manufacturing, testing and delivery of the materials and equipment within the time stated in the bid documents. The program shall be in the form of bar chart. The Supplier shall submit progress reports detailing progress and explaining any variations if any.

Liquidated Damages 11.

- The liquidated damages shall be: 1 % per week. GCC 17.1
- The maximum amount of liquidated damages shall be: 10 % of the contract value. GCC 17.1

Resolution of Disputes 12.

The rules of procedure for arbitration proceedings pursuant to GCC Sub-Clause 21.2 GCC 21.2 shall be as per the Alternative Dispute Resolution Act of Bhutan 2013.

Taxes and Duties 13.

Pursuant to GCC 26.1 GCC 26.1

- a. Price quoted shall be inclusive of all taxes (both inside and outside the purchaser's country) and Purchaser shall not be responsible and liable for the reimbursement/payment of taxes and duties. Further, for the clarity of applicable taxes, the Bidders may check with Department of Revenue and Custom, Ministry of Finance, Thimphu Bhutan / for exact Tax Rates in Bhutan for goods offered from India/Third Countries that are payable in Bhutan;
- b. The manufacturer(s) in Bhutan are to pay the taxes in accordance with the rules of the Government without any liability to the Purchaser. Purchaser shall not be responsible for reimbursement/processing exemptions/payments of taxes, duties levies, royalties etc. for raw materials; and
- c. Tax Deducted at Source (TDS) shall be deducted as per the regulations of Ministry of Finance, RGoB, Bhutan.

Section VIII. Contract Forms

Table of Contents

Contract Agreement	2
Performance Security	4
Bank Guarantee for Advance Payment	5



Contract Agreement

THIS CONTRACT AGREEMENT made on the [insert number] day of [insert month], [insert year],
BETWEEN
[insert complete name of Purchaser] of Bhutan
Power Corporation and having its principal place of business at [insert address of Purchaser]
(hereinafter "the Purchaser") of the one part and
[insert name of Supplier], a corporation incorporated under the laws of [insert: country of Supplier] and having its principal place of business at [insert address of Supplier] (hereinafter "the Supplier") of the other part.
WHEREAS the Purchaser is desirous that certain goods be provided by the Supplier, viz.,
[insert Brief Description of Goods, as identified in the Bid Form and Price Schedule] (hereinafter "the Goods") and has accepted a Bid by the Supplier for the provision of those Goods in the sum of

NOW THIS CONTRACT AGREEMENT WITNESSETH AS FOLLOWS:

- In this Agreement words and expression shall have the same meaning as are 1. respectively assigned to them in the Conditions of Contract referred to.
- The following documents shall constitute the Contract between the Purchaser and 2. the Supplier, and each shall be read and construed as an integral part of the Contract:
 - This Contract Agreement; a)
 - b) Minutes of Contract Negotiation Meeting;
 - c) Special Conditions of Contract;
 - d) General Conditions of Contract;
 - e) Technical Requirements;
 - The Supplier's Bid and original Price Schedule; f)
 - The Purchaser's Notification of Award; g)
 - h) Integrity Pact;
 - VPMS Acceptance Form
- This Contract shall prevail over all other Contract documents. In the event of any 3. discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.

For and on behalf of the Purchaser:

- 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 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 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 Contract Agreement to be executed in accordance with the laws of Bhutan on the day, month and year indicated above

Signed:	[insert signature]
In the capacity of	[insert title or other appropriate designation]
In the presence of	[insert signature]
	[insert identification of official witness]
For and on behalf of the	Supplier
Signed:	[insert signature of authorized representative(s) of the Supplier]
In the capacity of	[insert title or other appropriate designation]
In the presence of	[insert signature]
	[insert identification of official witness]



Performance Security

[The bank, as requested by the succestinstructions indicated]	ssful Bidder, shall fill in this form in accordance with the
Date: IFB No. and title:	[insert date (as day, month, and year) of Bid submission][insert no. and title of bidding process]
Bank's Branch or Office:	[insert complete name of Guarantor]
Beneficiary:	[insert complete name of Purchaser]
[insert Performance Guarantee num	
We have been informed that(hereinafter called "the Supplier") l dated[insert	[insert complete name of Supplier] has entered into Contract No. [insert number] has and month], [insert year] with you, for the supply of
[description of Goods and related Se	rvices] (hereinafter called "the Contract").
Furthermore, we understand that, a Guarantee is required.	ccording to the conditions of the Contract, a Performance
your first demand in writing declaricavil or argument, or you needing to sum specified therein.	hereby irrevocably undertake to pay you any sum(s) not insert amount(s) ¹ in figures and words] upon receipt by us of ing the Supplier to be in default under the Contract, without prove or to show grounds or reasons for your demand or the
received by us at this office on or	ter than the

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

[Signatures of authorized representatives of the bank]

Date established in accordance with 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. Contract or a freely convertible currency acceptable to the Purchaser.

Bank Guarantee for Advance Payment

[The bank, as requested by the instructions indicated.]	successful Bidder, shall fill in this form in accordance with the
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:	finsert legal name and address of Purchaser]
ADVANCE PAYMENT G [insert Advance Payment Guard	UARANTEE No.:
	Firment local name and address of
bank], have been informed that and address of Supplier] (her	reinafter called "the Supplier") has entered into Contract No. [insert number] dated[insert]
date of Contract] with you, for Goods to be delivered] (hereina	r the supply of [insert types of after called "the Contract").
Furthermore, we understand t payment is to be made against a	that, according to the conditions of the Contract, an advance an advance payment guarantee.
exceeding in total an amount of	we hereby irrevocably undertake to pay you any sum or sums not [insert amount(s)] in figures of your first demand in writing declaring that the Supplier is in the Contract because the Supplier used the advance payment for every of the Goods.
It is a condition for any claim payment referred to above	and payment under this Guarantee to be made that the advance must have been received by the Supplier in its account [insert number and domicile of the account]
received by the Supplier under to a one-time extension of this six months Hone year. in resu	valid and in full effect from the date of the advance payment the Contract until [insert date ⁴]. We agree so Guarantee for a period not to exceed ponse to the Purchaser's written request for such extension, such effore the expiry of the Guarantee.
[signature(s) of authorized repu	resentative(s) of the bank]
Contract or a freely convertible currency Insert the Delivery date stipulated in the	ified in the SCC and denominated, as specified in the SCC, either in the currency(ies) of the vacceptable to the Purchaser. Contract Delivery Schedule. The Purchaser should note that in the event of an extension of the stern would need to request an extension of this Guarantee from the bank. Such request must be in prication date established in the Guarantee

Section IV. Bidding Forms

Table of Contents

THE TO STATE OF THE TENTH OF TH	2
Bidder Information Form	2
Joint Venture (JV) Partner Information Form	3
Bid Form	4-5
Deviation Schedule	6
Bid Security (Bank Guarantee)	7
Manufacturer's Authorisation	8
Integrity Pact	9-11
VPMS Acceptance Form	12
VI MID ACCOPTANCE I CHIII	



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: [insert date of Bid submission:] 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 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] ☐ Registration of firm named in 1 above, in accordance with ITB 3.1. In the case of a JV, letter of intent to form the JV, or the JV agreement, in accordance with ITB 6.1 (e). Power of attorney authorizing the signatory of the Bid to sign on behalf of the Bidder.

Joint Venture (JV) Partner Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below]. Date: [insert date (as day, month and year) of Bid submission] Bid No.: [insert number of bidding process]

	Page of pag
1.	Bidder's Legal Name: [insert Bidder's legal name]
2.	JV Party's legal name: [insert JV Party's legal name]
3.	JV Party's Country of Registration: [insert JV Party's country of registration]
4.	JV Party's Year of Registration: [insert JV Party's year of registration]
5.	JV Party's Legal Address in Country of Registration: [insert JV Party's legal address in country of registration]
6.	JV Party's Authorized Representative Information
N	ame: [insert name of JV Party's authorized representative]
A	ddress: [insert address of JV Party's authorized representative]
Te	elephone/Fax numbers: [insert telephone/fax numbers of JV Party's authorized representative]
E	-mail Address: [insert e-mail address of JV Party's authorized representative]
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 3.1.
	Copy of Agreement between JV Partners.
	\mathcal{M}

Bid	Form
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[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.]

Invit	Date:
	[insert complete name of the Purchaser]
We,	the undersigned, declare that:
	We have examined and have no reservations to the Bidding Documents, including Addenda
	[insert the number and date of issue of each addendum];
	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:
	[insert a brief description of the Goods and Related Services];
(c)	The total price of our Bid, excluding any discounts offered in item (d) below is:
	[insert the Bid Price in words and figures, indicating the various amounts and their respective currencies];
(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 120 days (15th Jan, 2021) from the date fixed for the Bid submission deadline in accordance with ITB (insert Sub-Clause21.1), and it shall remain binding upon us and may be accepted at any time before expiry of that period;

JCC	Honry Distances
(f)	If our Bid is accepted, we commit to provide a Performance Security in accordance with ITB (insert Clause 48 and GCC Clause 11) 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 (insert Clause 15);
(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 (Insert 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 (insert Sub-Clause 4.1);
(k)	bidding process or execution of the Contract:
	Name of Recipient Address Reason Amount
	(If none has been paid or is to be paid, indicate "none.")
	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.
	n) We understand that you are not bound to accept the lowest evaluated Bid or any other Bid that you may receive.
Si	gned:[insert signature of person whose name and capacity are shown]
	the capacity of
N	Name:
D	ouly authorized to sign the bid for and on behalf of:

DEVIATION SCHEDULE

The bidder shall specify below, in detail, all deviations from and exceptions to the Bid Document. Any entry shall be referenced to the Bid Document Clause No. To which they refer.

The Bidder shall be deemed to be complaint with the content and intent of the Bid Document except in respect of deviations and exception listed in this Schedule.

No deviation from and exception to the Bid Document shall be made subsequently to the Contract without the written approval of the Employer.

Clause No.	Details of Deviation/ Exception	Reasons for Deviation/ Exception

Declaration: This page and attached......Pages of deviation from the Bid Document is a complete record of such deviation.

In case of NO DEVIATION is mentioned here and deviation of clauses/specification is mentioned elsewhere, then it will be taken as a deviation.

Signature of Bidder	
Place & 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	
Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.	
At the request of the Bidder, we	
(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; 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.	7
[signature of authorized representative of the bank]	

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.]

Dat	e:	[insert de	ate of Bid Submission]
	ation for Bid No.: [insert iden	tification No if this is a	_[insert IFB number] Bid for an alternative]
То <u>:</u>			me of the Purchaser]
WHEREAS			
We <i>Manufacturer]</i> , who are office factories	cial manufacturers of		complete name of the nanufactured], having at
in relation to the Invitation following Goods, manufacture brief description of the Goods. We hereby extend our full gue Contract, with respect to the Goods.	for Bids indicated ab red by us, namelys], and subsequently to arrantee and warranty	ove, the purpose of who negotiate and sign the in accordance with the in	idder] to submit a Bid nich is to provide the[insert name and/or Contract.
Signed: representative(s) of the Manu			ature(s) of authorized
Name: authorized representative(s) o	of the Manufacturer]	[insert co	mplete name(s) of the
Title: representative(s) of the Manu Duly authorized to sign this A Tinsert complete name of the	authorization for and o		le(s) of the authorized
	t number] day of	[insert month],	[insert year]

INTEGRITY PACT

1 General:

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**¹ and **contract administration**², 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.

¹ 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.

² Contract administration, for the purpose of this IP, shall mean contract award, contract implementation, unauthorized sub-contracting and contract handing/taking over.

organization or third party related to the contract in exchange for an advantage in the bidding process and contract administration.

- The Employer further confirms that its officials shall not favor any prospective bidder in 4.2 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.
- Officials of the Employer, who may have observed or noticed or have reasonable 4.3 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.
- Following report on violation of clauses 4.1 and 4.2 by official (s), through any source, 4.4 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:-

- The Bidder shall not offer, directly or through intermediaries, any bribe, gift, 5.1 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.
- The Bidder shall not collude with other parties interested in the contract to manipulate in 5.2 whatsoever form or manner, the bidding process and contract administration.
- If the bidder(s) have observed or noticed or have reasonable suspicion that the provisions 5.3 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 pen actions as per the relevant rules and laws.

The breach of the IP or commission of any offence (forgery, providing false information, 6.1 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 ______ on _____.

Affix Legal Stamp

EMPLOYER

CID: 1 1 1 0 7 0 0 2 4 1 1 CID: Witness: ______

Name: Mahendra Subedi

CID: 1 0 3 0 4 0 0 3 5 8 8 CID:

VPMS Acceptance Form

[The Bidder shall fill in this form in accordanits format shall be permitted and no substitut	nce with the instructions indicated. No alterations to ions shall be accepted.]
WHEREAS MESSRS (Insert the name of bid (hereinafter called "the Bidder") License No. office at has sub	dder)having our registered omitted its bid dated
We hereby agree to abide by the Vendor Perfas follows.	formance Management System of BPC or do affirm
1. We have read and understood all provis System (VPMS) and we have no reservati Documents.	sions set in the Vendor Performance Management ons to the VPMS document included in the Bidding
2. We agree to abide by all the provision of V	VPMS.
3. If our bid is accepted, we agree to be assest by Bhutan Power Corporation Limited.	essed as per the vendor rating methodology adopted
4. Depending on our performance, we accept any action taken by Bhutan Power Corporation	t the rating of Vendor Performance Index issued and ation Limited pursuant to the VPMS.
5. We shall be liable for any breach of this up VPMS.	ndertaking and non-compliance to the provisions of
(Signature of Bidder)	(Signature of witness)
Date:	Date:
	Address:
	Contact No.:

GTP FOR BIDDERS TO FILL UP



LOT 1: Machineries

1: HT Coil Winding Machine (Semi-automatic)

Item 1:	Item 1: HT Coil Winding Machine (Seill-automatic)	шашс)	
Preferre	Preferred Brand: Synthesis, Whitelegg, Uday Enterprises or equivalent	Enterprises	or equivalent
			Bidders To Fill up
SL. No.	SL. No. Parameters	Units	HT Coil winding Machine (Semi-automatic)
	COMPONENT		
-		mm	
2	Coil Length	mm	
3	Wire Size	mm/SWG	
4	Conductor type	Туре	
5	Coil Weight	Kg	
6	Component Loading Height	mm	
7	No. of Turns	RPM	
	HEAD STOCK		
8	Distance between centers	mm	
9	Winding Spindle Speed	RPM	
10	Spindle Motor	Type	
	TAIL STOCK		
11	Tail Stock	Туре	
12	Axial movement of the Tail Stock center	mm	
	TENSION CONTROL		



ging details.	V for packag	Refer Sub-clause 1.11 of Section I of Schedule V for packaging details.
		Refer Section II ITB 20.2 of Bid Data Sheet
	uired	Footnote: The model number and make is required
		20 Components in the set
	Kg	19 Weight
	mm	18 Dimensions
	kW	17 Power Consumption
	V/Ph, Hz	16 Power Supply
		UTILITIES
		15 Make
	mm	14 Traverse Stroke Length
		TRAVERSE
	mm	13 Wire Tensioner



Item 2: Transformer oil filter machine LOT 1: Machineries

Preferre	Preferred Brand: AR Engineering SATARA, Kristorr or equivalent	Kristorr or equi	valent
			Bidders To Fill up
SL. No.	SL. No. Parameters	Units	Transformer oil filter machine
1	Flow of oil	(Litre/Hour)	
2	Material		
3	Power source	V/Ph, Hz	
4	Neutralization Value	KOH/gram	
5	Moisture content	PPM	
6	Gas content	%	
7	Components in the set		
Footnote	Footnote: The model number and make is required	uired	
Refer Se	Refer Section II ITB 20.2 of Bid Data Sheet		

Refer Sub-clause 1.11 of Section I of Schedule V for packaging details.



LOT 1: Machineries

Item 3: Band Saw Machine

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9	referred Brand: Bhavva Machine Tools, Multicut Machine Tools or equivalent
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TICICITE	Treferred Brand: Bhaya Machine 1001s, Mullicut Machine 1001s or equivalent	Tutticut Machin	e 100is or equivalent
21			Bidders To Fill up
SL. No.	Parameters	Units	Band Saw Machine
1	Round Cutting	mm	
2	Square Cutting	mm	
3	Blade Size	mm	
4	Blade Speed	m-min	
5	Power	V/Ph, Hz	
6	Motor output : Saw blade	kW	
7	Motor output : Hydraulic	kW	
∞	Tank capacity: Coolant	kW	
9	Tank capacity: Hydraulic oil	Ltrs	
10	Tank capacity: Coolant	Ltrs	
11	Vise control	Туре	
12	Components in the set		
Footno	Footnote: The model number and make is required	panirod	

Refer Section II ITB 20.2 of Bid Data Sheet

Refer Sub-clause 1.11 of Section I of Schedule V for packaging details.



Item 4: Arc Welding Machine LOT 1: Machineries

Preferre	Preferred Brand: ESAB, LINCOLN, MILLER or equivalent	quivalent	
			Bidders To Fill up
SL. No.	SL. No. Parameters	Units	Arc Welding Machine
1	Mains Supply	V/Ph, Hz	
2	Input Power	KVA	
3	Permitted Load at 60% Duty Cycle,	Α	
4	Permitted Load at 100% Duty Cycle	A	
5	Power Factor		
6	Efficiency at Maximum Current	%	
7	Current Range	Α	
8	Open Circuit Voltage (OCV)	V	
9	VRD Voltage	V	
10	Dimensions (L X W X H)	mm	
11	Weight	Kg	

Footnote: The model number and make is required

13

Components in the set

12

Power Source cooling

Туре

Refer Section II ITB 20.2 of Bid Data Sheet

Refer Sub-clause 1.11 of Section I os Schedule V for packaging details



Item 5: MIG Welding Machine LOT 1: Machineries

rreierre	Preferred Brand: ESAB, LINCOLN, MILLER or equivalent	equivalent	
			Bidders To Fill up
SL. No.	Parameters	Units	MIG Welding Machine
1	Mains Supply	V/Ph, Hz	
2	Input Power	KVA	
ယ	Permitted Load at 60% Duty Cycle,	Α	
4	Permitted Load at 100% Duty Cycle	Α	
5	Power Factor		
6	Efficiency at Maximum Current	%	
7	Current Range	Α	
8	Open Circuit Voltage (OCV)	V	
9	∨RD Voltage	V	
10	Dimensions (L X W X H)	mm	
11	Weight	Kg	
12	Power Source cooling	Туре	
	Wire Feeder Specification		
13	Wire Feed Speed,	m/min (Wire Dia, mm)	
14	Wire Dia	MS/SS / (Al/FC), mm	
15	Interconnection Length	mm	
16	Components in the set		



Refer Sub-clause 1.11 of Section I os Schedule V for packaging details

Refer Section II ITB 20.2 of Bid Data Sheet

Footnote: The model number and make is required

LOT 1: Machineries

Item 7: High Pressure Washer

Preferre	Preferred Brand: BOSCH, KARCHER, NILFISK or equivalent	FISK or equiv	/alent
			Bidders To Fill up
SL. No.	SL. No. Parameters	Units	High Pressure Washer
1	Current type	V/Hz	
2	Pressure	bar/MPa	
ယ	Flow rate	l/h	
4	Max. inlet temperature	°С	
5	Connection load	kW	
6	Area performance	m²/h	
7	Current type	V/Hz	
∞	Components in the set		
Footnote	Footnote: The model number and make is required	quired	
Refer Se	Refer Section II ITB 20.2 of Bid Data Sheet (MA not required)	AA not required	
Refer Su	Refer Sub-clause 1.11 of Section I os Schedule V for packaging details	V for packagir	g details



LOT 1: Machineries

Item 8: Wet and Dry Vacuum cleaner with Tach filter cleaning system

Preferred Brand: BOSCH, KARCHER, NILFISK or equivalent

Preferred	Preferred Brand: BUSCH, NANCHER, NILFISK of cymraiche	The State of Charles	AICH
			Bidders To Fill up
SL. No.	SL. No. Parameters	Units	Wet and Dry Vacuum cleaner with Tach filter cleaning system
1	Current type (Ph/V/Hz)	Ph/V/Hz	
2	Air flow rate (1/s)	l/s	
ω	Vacuum (mbar/kPa)	mbar/kPa)	
4	Container capacity (1)		
5	Container material	kW	
6	Rated input power	Amps (W)	
7	Sound pressure level (dB(A))	dB(A)	
8	Usage	Type	
9	Components in the set		
Footnot	Footnote: The model number and make is required	equired	
Refer So	Refer Section II ITB 20.2 of Bid Data Sheet	1 17 6	
Refer S	Refer Sub-clause 1.11 of Section I os Schedule V for packaging details	le V for packag	ng details



Item 9: Heavy Duty Soldering Iron LOT 1: Machineries

referre	Preferred Brand: HAKKO, AMERICAN BEAUTY or equivalent	BEAUTY or equivalent	
			Bidders To Fill up
SL. No.	SL. No. Parameters	Units	Heavy Duty Soldering Iron
1	Chisel Point tip	Inch, Type	
2	Input voltage	V	
3	Power	W	
4	Temperature range	°C	
5	Soldering iron Length	mm	
6	Chisel Point tip	mm	
7	Cable length	mm	
8	Uses	Туре	
9	Handle	Туре	
Footnoi	Footnote: The model number and make is required	required	
lefer So	Refer Section II ITB 20.2 of Bid Data Sheet (MA not required)		
D-C G 1 1 111 CG .: T CG 1 1 1 17 C 1		t (MA not required)	



LOT 2: Tools

Item 7: 1	Item 7: 150 pcs Master Tool Set	ool Set	
Preferre	d Brand: Stanley	Preferred Brand: Stanley, Dewalt, Black and Decker, Gedore or equivalent	
			Bidders To Fill up
SL. No.	Parameters	Units	Master Tool Set
	Components:		
1	10	Drive 6 point inch sockets 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2	
2	10	1/4, Dr 6 point metric sockets : 4, 5, 6, 7, 8, 9, 10, 11, 12,13mm	
ω	6	1/4" Dr deep 6 point metric sockets : 4, 5, 6, 7, 8, 9mm	
4	3	3/8", Dr Phillips bit sockets: 1, 2, 3	
5	9	3/8, Dr 6 point inch sockets : 3/8, 7/16, Å, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8	
6	6	3/8, Drive deep 6 point metric sockets : 10, 11, 12, 13, 14, 15mm	
7	2	3/8, Dr extension bar - locking : 3, 6	
8	2	3/8, Dr spark plug metric sockets : 16, 21mm	
9	6	1/2, Drive deep 6 point metric sockets: 10, 12, 13, 14, 17, 19mm	
10	∞	3/8, Drive 6 point Torx sockets : E8, E10, E11, E12, E14, E16, E18, E20	
11	11	3/8, Drive 6 point metric sockets : 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	

THIMPHU

29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1	1	7	3	2	6	1	1	1	10	7	3	12	3	6	7	4	4
1/4, Drive adapter	1/4, Drive Universal Joint	3/8, Drive Torx bit sockets: T-20, T-30, T-40, T-45, T-50, T-55, T-60	3/8, Drive slotted bit sockets: 4.0, 5.5, 6.5mm	1/2, Drive extension bar: 5, 10 (125, 150mm)	1/2, Drive deep 6 point metric sockets: 10, 12, 13, 14, 17, 19mm	1/4, spinner handler	1/4, Drive extension bar 100mm	1/4, Drive pear head ratchet with comfort grip	Hex key: 1.5, 2.0, 2.5, 3.0, 4, 5, 6, 7, 8, 10mm	1/4, Drive Torx (hole) bit: T-10, T-15, T-20, T-25, T-27, T-30, T-40	double box reversal metric ratcheting wrenches: 8x9, 12x13, 17x19mm	Full polish long panel combination wrenches: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	3/8, Drive Pozidrive bit sockets: #1, #2, #3	3/8, Drive hex bit sockets : 3, 4, 5, 6, 8, 10mm	1/2, Drive 12 point metric sockets: 20, 21, 22,24,27, 30, 32mm	1/2, Drive 12 point inch sockets: 15/16, 1, 1-1/16, 1-1/4	1/2, Drive impact 6 point metric sockets : 17,17, 21,25 mm
A A A A A A A A A A A A A A A A A A A																	

		1	
30	1	3/8, Drive Universal Joint	
31	1	1/2, Drive pear head ratchet with comfort grip	
32	1	3/8 Drive pear head ratchet with comfort grip	
33	1	1/2, Drive Universal Joint	
Footnote	: The model nun	Footnote: The model number and make is required	
Refer Se Refer Su	ction II ITB 20.2 b-clause 1.11 of S	Refer Section II ITB 20.2 of Bid Data Sheet (MA not required) Refer Sub-clause 1.11 of Section I of Schedule V for packaging details	



LOT 2: Tools	Tools		
Item 8:	Item 8: 132 pcs Master Tool Set	ool Set	
Preferre	d Brand: Stanley	Preferred Brand: Stanley, Dewalt, Black and Decker, Gedore or equivalent	
SL. No.	Parameters	Units	Bidders To Fill up Master Tool Set
	Components:		
1	1	1/2" Drive Pear Head Ratchet Handle.	
2	1	1/2" Drive Flex Handle: 375mm.	
3	3	1/2" Drive Extension Bars: 75, 125 & 250mm.	
4	1	1/2" Drive Universal Joint.	
S	15	1/2" Drive 12 Point Imperial Sockets: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16 & 1-1/4".	
6	18	1/2" Drive 12 Point Metric Sockets: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30 & 32mm.	
7	2	1/2" Drive 6 Point Spark Plug Sockets: 5/8 & 13/16".	
8	1	1/4" Drive Pear Head Ratchet Handle.	
9	2	1/4" Drive Extension Bars: 50 & 150mm.	
10	1	1/4" Drive Universal Joint.	
=	1	1/4" Drive Bit Holder.	
12	1	1/4" Drive Spinner Handle.	
13	7	1/4" Drive 6 Point Imperial Sockets: 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8".	, WWX
14	9	1/4" Drive 6 Point Metric Sockets: 4, 4.5, 5, 5.5, 6, 7, 8, 9 & 10mm.	
15	7	Imperial Combination Spanners: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16 & 3/4".	THISTORY OF THE PROPERTY OF TH
16	12	Metric Combination Spanners: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 & 19mm.	1 0 mg

17	33	Assorted 1/4" Drive Bits - 25mm.	
18	9	Hex Key Set, Long Ball Type: 1.5, 2, 235, 3, 4, 5, 6, 8 & 10.	
19	1	300mm Chrome Adjustable Wrench.	
20	1	178mm Combination Pliers.	
21	1	152mm Diagonal Cutting Pliers.	
22	1	152mm Long Nose Pliers.	
23	2	Phillips Screwdrivers: PH1x100 & PH2x150mm.	
24	2	Slotted Screwdrivers: 5x100 & 6x150mm.	
Footnote	:: The model nur	Footnote: The model number and make is required	
Refer Se	ction II ITB 20.2	Refer Section II ITB 20.2 of Bid Data Sheet (MA not required)	
Refer Su	b-clause 1.11 of	Refer Sub-clause 1.11 of Section I of Schedule V for packaging details	



LOT 2: Tools

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19: 2-Speed Magnetic Drill Press
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referred Brand: Dewalt Bosch, Stanley, Makita, Black & Decker

	Preferre	Preferred Brand: Dewalt, Bosch, Stanley, Makita, Black & Decker or equivalent	[akita, Black &	Decker or equivalent
				Bidders To Fill up
	SL. No.	SL. No. Parameters	Units	2-Speed Magnetic Drill Press
	1	Power	W	
	2	Chuck capacity	mm	
-	3	Magnetic clamping force	N (kg)	
	4	Drill Capacity	mm	
	5	No load speed (rpm)	RPM	
	6	Net Weight	Kg	
	Footnote	Footnote: The model number and make is required	equired	



Refer Sub-clause 1.11 of Section I of Schedule V for packaging details

Refer Section II ITB 20.2 of Bid Data Sheet

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Item 1: I	Item 1: Digital Clamp on Multi-meter		
Preferre	Preferred Brand:Hioki, Megger, Kyoritsu or equivalent	ivalent	
			Bidders To Fill up
SL. No.	SL. No. Parameters	Units	Digital Clamp on Multi-meter
1	AC Current range	A/Hz	
2	DC Voltage range	V	
သ	AC Voltage range	A/Hz	
4	Resistance range	Ω/ΜΩ	
5	Power supply	Battery type/hours	
6	Core j aw dia.	mm of Dia	
7	Dimensions and mass	mm/kg	
∞	Components in the set (accessories)		
Footnot	Footnote: The model number and make is required	b.d	

Refer Section II ITB 20.2 of Bid Data Sheet

Refer Sub-clause 1.11 of Section I of Schedule V for packaging details

LOT 3: Testing Equipment

Item 2: Transformer oil test kit

er, The Motwane Manufacturing Company Private Limited, UDEYRAJ ELECTRICALS

			Bidders To Fill up
SL. No.	SL. No. Parameters	Units	Transformer oil test kit
1	Test Voltage	kV	
2	Voltage rise time	kV/s	
. 3	Voltage rise time accuracy	%	
4	Voltage resolution and accuracy	kV	
5	Vessels	mL	
6	Temperature sensor resolution	°C	
7	Power Supply	V/Ph, Hz	
∞	Batteries (optional)	V/Ah	
9	Line frequency	Hz	
10	Internal printer	Туре	
11	Display	Туре	
12	Operating temperature	°C	
13	Storage temperature	°C	
Footno	Footnote: The model number and make is required	required	



Refer Sub-clause 1.11 of Section I of Schedule V for packaging details

Refer Section II ITB 20.2 of Bid Data Sheet

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Item 3: HV test set	IV test set		
Preferred	d Brand: Megger , UDEYRAJ ELF	CTRICALS PVT.LTD,	Preferræd Brand: Megger, UDEYRAJ ELECTRICALS PVT.LTD, KharkovEnergoPribor Ltd(KEP) or equivalent
			Bidders To Fill up
SL. No-	Parameters	Units	HV test set
1	Power consumption	kVA	
2	Power consumption short-time	kVA	
3	Input voltage	V/Ph, Hz	
4	Output voltage	kV DC	
5	Measuring range	kV RMS AC/ kV DC	
6	Precision	%	
7	Output current	$\mathrm{mA}_{\mathrm{RMS}}$	
8	Measuring range	$\mathrm{mA}_{\mathrm{RMS}}$	
9	Precision	%	
Footno te	Footno te: The model number and make is required	equired	

Refer S ub-clause 1.11 of Section I of Schedule V for packaging details

Refer S ection II ITB 20.2 of Bid Data Sheet

Preferred Brand: Megger, Hioki, UDEYRAJ ELECTRICALS PVT.LTD or equivalent
SL. No. Parameters Units Insulation Resistant tester
A.C. voltage (auto-ranging) V rms, Hz, VA
Test voltage V
Lock test voltage V
Test voltage accuracy %
Resistance range $k\Omega$
Accuracy kV/Ω
Short circuit / charge current mA
Insulation test alarm $k\Omega$
Capacitor charge s/μF
Capacitor discharge ms/μF
Battery life Hrs
Capacitance range nF
Capacitance measurement accuracy nF
Current range mA
Current accuracy %
Voltmeter range V
Voltmeter accuracy %
Footnote: The model number and make is required

LOT 3: T	LOT 3: Testing Equipment		
Item 5: D	Item 5: DVDF test set		
Preferred	Preferred Brand: Ajit electronics co., Rectifiers and Electronics or equivalent	s and Electronics or equivalent	
			Bidders To Fill up
SL. No.	Parameters	Units	DVDF test set
1	Input voltage	V/Ph, Hz	
2	Output voltage	V/Ph, Hz	
3	Output Frequency	Hz	
4	Capacity	kVA	
5	Metering	phase	
6	Duty Cycle	%	
7	Trip	Steps	
∞	Timer	Туре	
9	Output Control	Туре	
10	Indicators	Туре	
11	Cooling	Туре	
12	Construction (Components in the set)	Units/Nos.	
Footnot	Footnote: The model number and make is required	ired	
Refer Se	Refer Section II ITB 20.2 of Bid Data Sheet		हों हैंग
Refer Sı	Refer Sub-clause 1.11 of Section I of Schedule V for packaging details	for packaging details	

PRICE SCHEDULE



Lot 1 - Machineries

	9 He 9 (C	8 No (Cr.	Hig (Po 7 50, Flo max ind	Oxygen (Set Inc 6 grade he tips, hea lighter)	MIG (Mai 5 23, C Loac Cycl	Arc v (Mai) 4 (Wa) Load	3 (Rour Size:2	Supply machi 2 (Flow KOH)	1 Supply (Semi- length	SL. No.
TOTAL	Heavy Duty Soldering Iron (Chisel Point tip: Flat bits minimum of 2 inch (Copper), Power: Not less than 200 Warts, Input voltage: 220-220 V)	Wet and Dry Vacuum cleaner with Tach filter cleaning system (Current type (Ph/V/Hz): 1/220/240/50/60, Air flow rate (I/s): Not less than 74, Vacuum (mbar/kPa): Not less than 254/25,4, Container capacity (I): Not less than 40, Rated input power/Amps (W): Not less than 1380)	High Pressure Washer (Powerful 2100-watt induction motor, Current type (V/Hz): 230 / 50, Pressure (bar/MPa): Not less than 20 - max. 140 / 2 - max. 14, Flow rate (I/h): Not less than max. 500, Max. inlet temperature (°C): max. 40, Connection load (kW): Not less than 2.1, Powerful 2100-watt induction motor)	Oxygen- Acetylene gas cutting torch and welding kit set (Set Including portable oxy-acetylene brazing welder tool set with two T-grade hose (color coded), goggles, regulator gauges (color coded), cutting tips, heating nozzle, welding nozzle storage case, tip cleaners and spark lighter)	MIG welding machine (Mains Supply, V/Ph, Hz: 400 ±15%/3, 50, Input current (Max), A: 23, Output range, A: 60-300, Output Voltage, V: 14-32, Permitted Load at 60% Duty Cycle, A: 300, Permitted Load at 100% Duty Cycle, A: 240)	Supply and Delivery of the following items: Arc welding machine (Mains Supply V/Ph, Hz: 400 ±15%/ 3, 50, Input Power (Max), KVA: 16, Permitted Load at 60% Duty Cycle, A: 400, Permitted Load at 100% Duty Cycle, A: 310, Current Range, A: 60-400)	Supply, installation and commisioning of Band saw machine (Round Cutting: 280mm, Square Cutting: 280 x 280mm, Blade Size: 2800 X 27 X 0.9mm, Blade Speed: 27,45,69m-min.)	Supply, installation and commisioning of Transformer Oil filter machine (Flow of oil (Liter/Hour): 600 LPH, Neutralization Value: <0.1 mg of (AR Engineering KOH/gram, Moisture content: 50-100PPM to <5PPM, Gas content: Up to < 0.05% by volume.)	Supply, installation and commisioning of HT Coil Winding machine (Semi-Automatic, Coil Diameter: Not less than 450 mm, Coil length: Not less than 400 mm, Wire size: At least 0.1 mm to 3.6 mm of Cu (Copper), Controller: PLC based control (Siemens/Fuji.)	Description of Machineries
	Preferred brand/Equivalent (HAKKO/ AMERICAN BEAUTY)	: Preferred brand/Equivalent (BOSCH/KARCHER/NILFISK)) is	Preferred brand/Equivalent): (BOSCH/KARCHER/NILFISK) att	65 7	Preferred brand/Equivalent (ESAB/LINCOLN/MILLER)	Preferred brand/Equivalent (ESAB/LINCOLN/MILLER)	Preferred brand/Equivalent (Bhavya machine tools/Multicut Machine Tools)	Preferred brand/Equivalent (AR Engineering SATARA/Kristorr)	Preferred brand/Equivalent (Synthesis/ Whitelegg/Uday Enterprises)	Preffered Brands
	TY) SET	SET	SET	SET	SET	SET	SET	SET	SET	Unit
	Γ 4	-	-	12	_	3	-	-	и	Q\$
										Origin and Brand
										(Nu.)



Lot 2 - Tools

					TOTAL	Tare at three property	T
			T	ack SET	Preferred brand (Bosch/Toshiba/Dewalt/Makita/Black & Decker)	Rotary Hammer with SDS plus (Rated Input power: 800W, Impact energy: Not less than 2.71, Impact rate at rated sneed: 0.4.000bpm, Rated speed: 0.900 rpm)	-
			-	Nos	Preferred brand/Equivalent (N. S. Enterprises/ Engineering Drawing Equipment)		10
			_	ck SET	Preferred brand/Equivalent (Bosch/Toshiba/Dewalt/Makita/Black an & Decker)		9
			22	SET	Preferred brand/Equivalent Stanley/Dewalt/Black and Decker/Gedore or equivalent		∞
			12	SET	Preferred brand/Equivalent Stanley/Dewalt/Black and Decker/Gedore or equivalent	Master tool set (150 pcs) (The Master Set has a tool kit with a variety of carefully chosen tools; 150 in count. Very portable and easy to carry around work places.) (Details of sets and accessories included in the detailed technicial specification)	7
			12	SET	Preferred brand/Equivalent (LMI/SWIFT/UTKAL)	Hand operated palette trolley (Lift Capacity: minimum 4000 Kg. Fork Length: not less than 1150 mm, Width Overall Fork: not less than 550 mm, Lower Fork Height: not less than 80 mm, Max Lifting Height:not less than 200 mm)	6
			2	SET	Preferred brand/Equivalent (LMI/SWIFT/UTKAL)	Hand operated palette trolley (Lift Capacity: minimum 2500 Kg. Fork Length: not less than 1150 mm, Width Overall Fork: not less than 550 mm, Lower Fork Height: not less than 80 mm, Max Lifting Height:not less than 200 mm)	Vi
			ω	SET	Preferred brand/Equivalent (BOSCH/STANLEY)	Angle Grinder (Rated input power: Not less than 2000 W, No-load speed:6500 rpm, Disc diameter: Not less than 180 mm, Grinding spindle thread:M 14)	4
			-	SET	Preferred brand/Equivalent (Toptul/ Gedore/STANLEY)	1/2" DR. Air Ratchet Wrench (Max. Torque: Not less than 70 ft-lb / 95 Nm, Free Speed: Not less than 160 RPM, Air Pressure: 90 PSI / 6.2 BAR, Air Consumption: 3.92 (CFM, Air Inlet: 1/4" PT, Min. Air Hose: 5/16" LD)	ა
			-	SET	Preferred brand/Equivalent (Toptul/ Gedore/ STANLEY)	ed technicial	2
			2	SET	Preferred brand/Equivalent (Bosch/Toshiba/Dewalt/Makita/Black & Decker)	Heavy Duty Double Ended Bench and Pedestal Grinder (Grinding wheel diameter: Not less than 200 mm, Rated input power: Not less than 600 W, Grinding wheel width:25 mm, No-load speed: 3,600 mm, Grinding wheel bore: 32 mm, Grit:24,60)	-
otal Frice DD1 (1741)	Unit Price DDP (Nu.) Total Price DDP (Nu.)	Offered Country of Origin and Brand	Qty	Unit	Preffered Brands	Description of Tools	No.



Lot 3 - Testing Equipments

	υ ₁	4	0 1	3 H	57	V	Tr (Fi	Co	1 Dig	SL.	
against overload/single phasing)	Supply, installation and commisioning of DVDF test set (Motor Generator Unit: This set up consists of a motor and generator combination to develop the required voltage and frequency. Control Panel Unit: The excitation of generator is governed through variac to control the output voltage. The necessary protection provided for all items	Insulation Resistant tester Preterred brand/requiverent Insulation Resistant tester (Insulation resistance up to 20 ΤΩ @ 10kV, A.C. voltage (auto-ranging): 90- (Megger/Hioki/UDEYRAJ ELECTRICALS SET 264 V rms, 47- 63 Hz 100 VA, Test voltage: 500 V, 1000 V, 2500 V, 5000 PVT.LTD V, 10000 V)	optional rectifier)	HV test set (Continuous testing with AC voltages up to 100 kV _{RMS} at 5 kVA, sensitive PD (Continuous testing with AC voltages up to 100 kV _{RMS} at 5 kVA, sensitive PD (Continuous testing with AC voltages up to 100 kV _{RMS} at 5 kVA, sensitive PD	1 °C, Internal printer: Dot matrix impact printer from errer (57 5 mm wide, weight 52 gm per roll Epson black ribbon cassette)	Vessels: 400 ml (standard), 150 ml (option), Temperature sensor resolution. Ltd(KEP))	Transformer oil test kit (Fully automatic insulating oil dielectric breakdown testing, Test voltage: 0 to 100 kV rms maximum (50 kV - 0 - 50 kV), Voltage rise time accuracy: 100 kV rms maximum (50 kV - 0 - 50 kV), Voltage rise time accuracy: 1.1 kV ±1% ±2 digits, hetter than 5%. Voltage resolution and accuracy: 0.1 kV ±1% ±2 digits,	Continuity: Buzzer sounds at 50 \$2 ±40 \$2 or 1535	oltage: 4.199 V to 600 V, 9 Ω to 41.99 MΩ,	Description of Equipments	
	Preferred brand/Equivalent (Rectifiers and Electronics /Ajit to electronics co.)	Preferred brand/Edunation (Megger/Hioki/UDEYRAJ ELECTRICALS PVT.LTD)		Preferred brand/Equivalent (Megger/UDEYRAJ ELECTRICALS PVT.LTDKharkovEnergoPribor Ltd(KEP))		Ltd(KEP))	(Megger/The Motwane Manufacturing Company Private Limited/UDEYRAJ ELECTRICALS PVT.LTD/KharkovEnergoPribor	Frank/Equivalent	Preferred brand/Equivalent (Hioki/Megger/Kyoritsu)		Preffered Brands
	SET	SET		SET			SET		SET	-	Unit
	1	12		-			1		0,		Qty
											Offered Country of Origin and Brand
											Unit Price DDP (Nu.)
											Total Price DDP (Nu.)

Footnote: If there are any mismatch in brand and specifications, the detailed technical specifications will superseed the brief description stipulated in this page.



	Lot 4	4 - Spares	Lot 4 - Spares and consumables	bles		
SI No.	Material Description (Specifications)	Unit	Quantity	Offered Country of Origin and Brand	Unit Price at Delivery Port (DDP) (Nu)	Total Price at Delivery Port (DDP) (Nu)
-	Transformer Bushing (1 1kV, 250A (As per IEC 60137))	SET	100			
2	Transformer Bushing (1 IkV 600A (As per IEC 60137))	SET	100			
w	Transformer Bushing (33kV, 250A (As per IEC 60137))	SET	50			
4	Transformer Bushing (11kV, 250A (As per IEC 60137))	NO	50			
S	Transformer Breather (Breather with Silica Gel (1"))	NO	20			
6	Transformer Breather (Breather with Silica Gel (1/2"))	NO	80			
7	Transformer Breather (Breather with Silica Gel (3/4"))	NO	50			
∞	Transformer Bushing Stud Set (HT) (Dia: 16mm (11kV, 250amps))	NO	30			
9	Transformer Bushino Stud Set (LT) (Dig. 30mm (1.1kV, 630amps))	NO	70			
10	Transformer Bushing Stud Set (LT) (Dia: 20mm (1.1kV, 630amps))	NO	70			
11	Arcing horn for 11kv (11kV)	NO	230			
12	Arching horn for 33kv (33kV)	NO	230			
13	Oil level Indicator Glass (Hard Plastic Transparent PVC Sheet (1mm*1000mm*1000mm))	KG	20			
14	Rust Removing Spray (WD 40 500ml)	NO	20			
15	Soldering Wire (14SWG)	KG	20			
16	Bakelite Tube (Dia: 8mm & Length 1000mm)	NO	50			
17	Bakelite Tube (Dia: 10mm & Length 1000mm)	NO	00			
18	Bakelite Tube (Dia: 12mm & Length 1000mm)	NO	50			
19	Ampere Tape (1", 30 m length)	NO	50			
21	Ampere Tape (3/4", 30 m length)	NO	150			
22	Cotton Tape (3/4, 30 m length)	NO	150			
23	Rough Cotton Tane (Thickness: Imm. Width: 2" & Length: 10m)	NO	100			
24	Class Fibre Tane (3/4" * 85m)	NO	20			
25	Transparent Industrial Tape (Width: 1" & Length: 85m)	NO	250			
26	Gate Valve ((Meter Valve) 1")	NO	10			
27	Gate Valve ((Meter Valve) 1/2")	NO	40			
28	Gate Valve ((Meter Valve) 3/4")	ON	7 40			
29	Gate Valve ((Meter Valve) 2")	NO	10			
31	GI Cap (3/4")	NO	60			
27	GI Cap (1/2")	NO	60			
33 2	GI Scal Pilig (1)	NO	50			
34	CI Seal Plug (1/2)	NO	50			0101
35	UI Seat Flug (3/4) Throad Seal Tane 30 m length)	NO	20			
36	Tellon tape (Till ead Seat Tape, 30 iii kingin)	NO	50			100
37	Condensator paper (5mils(0.1mm)* 300mm)	NO	50			tra
38	Border Strip paper (Thickness:0.5mm, Width:1" & Length:100m)	NO	100			27
39	Electrical insulating Paper (5mil B.5-1 M)	KG	40			×
40	Border Strip paper (4 mm x 8 mmX 100m)	NO	20			
41	Galvanised Nuts and Bolt ((associed sizes of the vacul) (whole 1.5/2 55mm to 1.115 of 1.501	KG	30			

NO		-	
11.0.4 15(N) OFF Circuit, 5 position tap changer) 33/0.4 15(N) OFF Circuit, 5 position tap changer) NO 33/0.4 15(N) OFF Circuit, 5 position tap changer) NO 2000	Tap C manger ((11)0.415kV) OFF Circuit, 5 position tap changer) Tap C manger ((3300.230kV) OFF Circuit, 5 position tap changer) NO 15 Tap C manger ((3300.230kV) OFF Circuit, 5 position tap changer) NO 2000 Fibre Sleeve (Sizes: Imm-4mm (Length: 1000mm)) Fibre Sleeve (Sizes: Imm-4mm (Length: 1000mm)) NO 2000 Fibre Sleeve (Sizes: Smm, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes: Smm, 6mm, 4mm, 2mm, 3mm, 1mm) Spade—Quick Splice Terminals Connectors) Spade—Quick Splice Terminals Connectors) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) Set si-ould include: minimumm of quantity 20 nos for each type, total quantity 100) NO 10 N	Tag C manger ((11/0.418/V) OFF Circuit. 5. Dosition flap changer) NO 15 Tap C manger ((33/0.430/V) OFF Circuit. 5. Dosition flap changer) NO 15 Fibre Seleeve (Sizes: Imm-famm (Length: 1000mm)) Heat Sinking Tube (Sizes: Imm, famm, famm, 2mm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes: Samm, famm, 4mm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes: Samm, famm, 4mm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes: Samm, famm, 4mm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes: Samm, famm, 4mm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes: Samm, famm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes: Samm, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes: Samm, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes: Samm, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes: Samm) (Types: Butt Ring, Spade Bullet, Fork, Spade Samm, 6mm, 4mm, 2mm, 1mm) Spade Spade Spade Spade Spade Spade Spade Spade Spade Bullet, Fork, Spade Sp	Tap C manger ((11/0.418/V) OFF Circuit. 5 position lap changer) Tap C manger ((330/0.230/k)) OFF Circuit. 5 position lap changer) NO 15 Fibre Seleeve (Sizes: 1mm-4mm (Length: 1000mm)) NO 2000 Read Selection of Sizes: 1symm (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 2sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 5sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes: 15sqmm) (Ring type)) NO 20 NO 30 NO 20 NO 2
Tap C Langer ((33/0.415kV) OFF Circlus, 2 Distinus and Annaer) Tap C Langer ((33/0.30kV) OFF Circlus, 5 position tag changer) NO 2000 Tap C Langer ((33/0.30kV) OFF Circlus, 5 position tag changer) NO 2000 Fibre Silecve (Sizes: Imm-Amm (Length: 1000mm)) Fibre Silecve (Sizes: Smm, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes: Smm, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silectinus Connectors) Spade—, Quick Splice Terminals Connectors) Spade—, Quick Splice Terminals Connectors) Set should include: minimumm of quantity 20 nos for each type, total quantity 100) Set should include: minimumm of quantity 20 nos for each type, total quantity 100) Set should include: minimumm of quantity 20 nos for each type, total quantity 100) Set should include: minimumm of quantity 20 nos for each type, total quantity 100) Set should include: minimumm of quantity 20 nos for each type, total quantity 100) Spacele, Quick Splice Terminals Connectors) NO 20 Spacele, Quick Splice Terminals Connectors) Spacele,	Tap C Langer ((33/0.415kV) OFF Circlut, Spotian and January (1972) Tap C Langer ((33/0.230kv) OFF Circlut, Spotian and January (1972) Tibre Silceve (Sizes: Imm-Amm (Length: 1000mm)) Fibre Silceve (Sizes: Smm. 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silceve (Sizes: Smm. 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silceve (Sizes: Smm. 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silceve (Sizes: Smm. 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silceve (Sizes: Smm. 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silceve (Sizes: Smm. 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silceve (Sizes: Smm. 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silceve (Sizes: Smm. 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silceve (Sizes: Smm. 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silceve (Sizes: Smm. 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silceve (Sizes: Smm. 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silceve (Sizes: Smm. 6mm, 4mm, 2mm, 3mm, 1mm) Spade Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors) Spade Le, Quick Splice Terminals Connectors) Spade Bullet, Fork, Inst. Lated Cu Cable Lugs and splicer (Sizes: Sq. mm) (Types But Ring, Spade Bullet, Fork, Inst. Lated Cu Cable Lugs and splicer (Sizes: Sq. mm) (Types But Ring, Spade Bullet, Fork, Inst. Lated Cu Cable Lugs and splicer (Sizes: Sq. mm) (Types But Ring, Spade Bullet, Fork, Inst. Lated Cu Cable Lugs and splicer (Sizes: Sq. mm) (Types But Ring, Spade Bullet, Fork, Inst. Lated Cu Cable Lugs and splicer (Sizes: Sq. mm) (Types But Ring, Spade Bullet, Fork, NO 2 Pre-Esspan Paper (Thickness 2mm, Length: S00mm & Breath: 1000mm) KG Pre-Esspan Paper (Thickness: 2mm, Length: S00mm & Breath: 1000mm) KG Pre-Esspan Paper (Thickn	Tap C Langer ((33/0.210k/0) OFF Circlus, 2 Distance 12	Tag C. Langer (133/0.418/V) OFF Circuit; 3 Position and Procession (133/0.418/V) OFF Circuit; 5 Position (133/0.418/V) OFF Circuit;
Fibre Silceve (Sizes: Imm-4mm (Length: 1000mm)) Fibre Silceve (Sizes: Imm-4mm (Length: 1000mm)) Fibre Silceve (Sizes: Smm, & Smm (Length: 1000mm)) Fibre Silceve (Sizes: Smm, & Smm (Length: 1000mm)) Fibre Silceve (Sizes: Smm, & Smm (Length: 1000mm)) Fibre Silceve (Sizes: Smm, & Smm, Amm, Amm, Amm, Amm, Amm, Amm, Amm,	Tap C ** Tanger* ((330,230kV) OFF Circuit, 5 position tap changer) Tibre Soleceve (Sizes: Imm-Amm(Length: 1000mm)) Fibre Soleceve (Sizes: Imm-Amm(Length: 1000mm)) Fibre Soleceve (Sizes: Smm, 6mm, 8mm, 6mm, 4mm, 1mm) Heat Sinking Tube (Sizes: 8mm, 6mm, 4mm, 2mm, 1mm) Heat Sinking Tube (Sizes: 8mm, 6mm, 4mm, 2mm, 1mm) Heat Sinking Tube (Sizes: 8mm, 6mm, 4mm, 2mm, 1mm) Spad	Table C Table (1330,230kV) OFF Circuit, 5 position lap changer)	Table C Tanger (1330,230kV) OFF Circuit, 5 position hap changer) Fibre Sileceve (Sizes: Imm-Amm (Length: 1000mm)) Fibre Sileceve (Sizes: Imm-Amm (Imm) Imm) Heat Sinking Tube (Sizes: Imm-Amm, Amm, Amm, Imm) Heat Sinking Tube (Sizes: Imm, Length: 1500mm & Breath: 1000mm) Fibre Sileceve (Sizes: Imm, Length: 1500mm & Breath: 1000mm) Fibre Sileceve (Sizes: Imm, Length: 1500mm & Breath: 1000mm) Fibre Sileceve (Sizes: Imm, Length: 1500mm & Breath: 1000mm) Fibre Sileceve (Thickness: Imm, Length: 1500mm & Breath: 1000mm) Fibre Sileceve (Thickness: Imm, Length: 1500mm & Breath: 1000mm) Fibre Sileceve (Thickness: Imm, Length: 1500mm & Breath: 1000mm) Fibre Sileceve (Thickness: 2mm, Imner Diameter: 12mm, Outer Dia: 16mm, Length: NO Fibre Sileceve (Thickness: 2mm, Inner Diameter: 12mm, Outer Dia: 22mm, Length: NO Fibre Sileceve (Thickness: 2mm, Inner Diameter: 12mm, Outer Dia: 22mm, Length: NO Fibre Sileceve (Thickness: 2mm, Inner Diameter: 12mm, Outer Dia: 22mm, Length: NO Fibre Fibre Paper (Thickness: 2mm, Inner Diameter: 12mm, Outer Dia: 22mm, Length: NO
Tap C. Hanger (13390,23087) O.1. Critical Colomn) Fibre Silceve (Sizes: 6mm. & 8mm. (Length: 1000mm)) Fibre Silceve (Sizes: 6mm. & 8mm. (Length: 1000mm)) Fibre Silceve (Sizes: 8mm. 6mm. 4mm. 2mm. 3mm. 1mm) Heat Sinking Tube (Sizes: 8mm. 6mm. 4mm. 2mm. 3mm. 1mm) Heat Silceve (Sizes: 8mm. 6mm. 4mm. 2mm. 3mm. 1mm) Heat Silceve (Sizes: 8mm. 6mm. 4mm. 2mm. 3mm. 1mm) Roo 200 Root Splice Terminals Connectors)) Set silce Acquick Splice Terminals Connectors)) Spade Quick Splice Terminals Connectors) Set Silce Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors) Set Silce Silce Splice (Sizes: Sagmm) (Types Butt Ring, Spade Bullet, Fork, Inst. 1ated Cu Cable Lugs and splicer (Sizes: Sagmm) (Types Butt Ring, Spade Bullet, Fork, Inst. 1ated Cu Cable Lugs and splicer (Sizes: Sagmm) (Types Butt Ring, Spade Bullet, Fork, Inst. 1ated Cu Cable Lugs and splicer (Sizes: Sagmm) (Ring type) No N	Tiap C Fanger (1520s) (200 M) (200	Tiap C Panager (1320s) 200s N 201 200s	Tiap C Panager (1520s; 150mm & 8mm (Length; 1000mm)) NO 700 Fibre Sileeve (Sizzes; 6mm & 8mm (Length; 1000mm)) NO 700 Fibre Sileeve (Sizzes; 6mm & 8mm (Length; 1000mm) NO 700 Fibre Sileeve (Sizzes; 15mm) (Imm, 4mm, 2mm, 3mm, 1mm) Heat Silekting Tube (Sizzes 8mm, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Silekting Tube (Sizzes 15mm) (Types; Butt Ring, Spade Bullet, Fork, 15mm) Spade Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors) Set Should include: minimumm of quantity 20 nos for each type, total quntity 100) Set Should include: minimumm of quantity 20 nos for each type, total quntity 100) Spade Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors) Spade Should include: minimumm of quantity 20 nos for each type, total quntity 100) Set Should include: minimumm of quantity 20 nos for each type, total quntity 100) Spade Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors Spade Spade Spade Bullet, Fork, Inst. Lated Cu Cable Lugs and splicer (Sizes: Ssqmm) (Types: But Ring, Spade Bullet, Fork, Inst. Lated Cu Cable Lugs and splicer (Sizes: Hosqmm (Ring type) NO Quick Splice Terminals Connectors Spade Spade Bullet, Fork, NO Quick Splice Terminals Connectors Spade Spade
Fibre Sleeve (Sizes: Imm. 4mm (Length: 1000mm)) Fibre Sleeve (Sizes: Somm & Smm (Length: 1000mm)) Fibre Sleeve (Sizes: Somm & Smm (Length: 1000mm)) Heat Sinking Tube (Sizes: Smm, 6mm, 4mm, 2mm, 1mm) Heat Sinking Tube (Sizes: Smm, 6mm, 4mm, 2mm, 1mm) NO 200 Heat Sinking Tube (Sizes: Smm, 6mm, 4mm, 2mm, 1mm) Spade Quck Splice Terminals Connectors) Spade Quick Splice Terminals Connectors) Set Snould include: minimumm of quantity 20 nos for each type, total quantity 100) Set Snould include: minimumm of quantity 20 nos for each type, total quantity 100) Set Snould include: minimumm of quantity 20 nos for each type, total quantity 100) Set Snould include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimumm of quantity 20 nos for each type, total quantity 100) Set Should include: minimum of quantity 20 nos for each type, total quantity 100) NO 2 Set Should include: minimum of quantity 20 nos for each type, total quantit	Fibre Sleeve (Sizes: Inm.4mm (Length: 1000mm) Fibre Sleeve (Sizes: Sorm & Smm (Length: 1000mm) Fibre Sleeve (Sizes: Sorm & Smm (Length: 1000mm) Heat Slinking Tube (Sizes: Smm, Smm, 4mm, 2mm, 3mm, 1mm) Heat Slinking Tube (Sizes: Smm, Smm, 4mm, 2mm, 3mm, 1mm) NO 200 Heat Slinking Tube (Sizes: Smm, 5mm, 4mm, 2mm, 3mm, 1mm) Read Slinking Tube (Sizes: Smm, 5mm, 4mm, 2mm, 1mm) Spade Quick Splice Terminals Connectors)) Spade Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors Spade Quick Splice Terminals Connecto	Fibre Sleeve (Sizes: Imm-damm (Length: 1000nmm)) Fibre Sleeve (Sizes: Imm-damm, Amm, 2mm, 3mm, 1mm) Fibre Sleeve (Sizes: Imm-damm, 2mm, 3mm, 1mm) Fibre Sleeve (Sizes: Imm-damm, 2mm, 2mm) Fibre Sleeve (Sizes: Spand) Fibre Sleeve (Sizes: Spand) Fibre Sleeve (Sizes: Imm-damm) Fibre Sleeve (Sizes: Spand) Fibre Sleeve (S	Fibre Sleeve (Sizes: Imm-damm (Length: 1000mm)) Fibre Sleeve (Sizes: Imm-damm (Length: 1000mm)) Fibre Sleeve (Sizes: Imm-damm (Length: 1000mm)) Fibre Sleeve (Sizes: Simm & Simm (Length: 1000mm)) Heat Sinking Tube (Sizes: Simm, Arm., 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes: Sizes: Isqmm) (Types: Butt Ring, Spade Bullet, Fork, Spade —, Quick Splice Terminals Connectors)) Spade Quick Splice Terminals Connectors)) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) Set Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) NO Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) NO Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100) NO Sinculd include: minimumm of quantity 20 nos for each type, total quntity 100, NO 22 nos each type, total quntit
Fibre Sheeve (Sizes: Smm, Comm & Smm, Length: 1000nm)) Fibre Sheeve (Sizes: Smm, Comm & Smm, Length: 1000nm)) Fibre Sheeve (Sizes: Smm, Comm & Smm, Length: Spann) (Types: Butt Ring, Spade Bullet, Fork, Insulational Councetors)) Fooders, Quick Spice Terminals Connectors) Spade Quick Spice Terminals Connectors) Spade Quick Spice Terminals Connectors) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100) Set should include: minimumm of quantity 20 nos for each type, total quntity 100 Set should include: minimumm of quantity 20 nos for each type, total quntity 100 NO 2 Set should include: minimum of quantity 20 nos for each type, total quntity 100 NO 2 Presspan Paper (Thickness 2mm, Length: 1500nm & Breath: 1000nm) Set should include: minimum of quantity	Fibre Sheever (Sizes: Shmm, Asmin (Length: 1000nm)) Fibre Sheever (Sizes: Shmm, Chmm, 2mm, 1mm) NO 200 Heat Sinking Tube (Sizes: Shmm, 6mm, 4mm, 2mm, 1mm) NO 200 Heat Sinking Tube (Sizes: Shmm, 6mm, 4mm, 2mm, 1mm) NO 200 Heat Sinking Tube (Sizes: Shmm, 6mm, 4mm, 2mm, 1mm) NO 200 Heat Sinking Tube (Sizes: Samm, 1mm) No 200 Heat Sinking Tube (Sizes: Samm, 1mm) No 200 Heat Sinking Tube (Sizes: Samm) No 200 Spade Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors Spade Quick Splice Termin	Fibre Sheever (Sizes: Shmm, & Smm, Length: 1000nmt) Fibre Sheever (Sizes: Shmm, & Smm, Length: 1000nmt) NO 200 Heat Sinking Tube (Sizes: Shmm, & Smm, Length: Spade Bullet, Fork, Spade Spade C, Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors Spade Quick Splice Ter	Fibre Silective (Sizes Smirn (Length: 1000mm) No. 200 Heat Sinking Tube (Sizes Smirn, Smirn, Length: 1000mm) No. 200 Heat Heat Sinking Tube (Sizes Smirn, Smirn, Length: 1000mm) No. 200 Heat Sinking Tube (Sizes Smirn, Smirn, Length: 1000mm) No. 200 Heat Sinking Tube (Sizes Smirn, Smirn, Length: 1000mm) No. 200 Heat Sinking Tube (Sizes Smirn, Smirn, Length: 1000mm) No. 200 Heat Sinking Tube (Sizes Smirn, Smirn, Length: 1000mm) No. 200 Heat Sinking Tube (Sizes Smirn, Smirn, Length: 1000mm) No. 200 Set Sizes Smirn, Smirn, Smirn, Smirn, Spade Bullet, Fork, Spade No. 200 Set Sizes Sizes Smirn, Smirn, Spade Smirn, Spade Bullet, Fork, Spade No. 200 Set Sizes Smirn, Smirn, Smirn, Spade Smirn, Spade Bullet, Fork, Spade Smirn, Smirn, Smirn, Spade Smirn, Smirn
Fibre Sleeve (Sizes: form& 8 mm (Length: 100mm) Heat Slinking Tube (Sizes: 8mm, 6mm, 4mm, 2mm, 1mm) Heat Slinking Tube (Sizes: 8mm, 6mm, 4mm, 2mm, 1mm) Heat Slinking Tube (Sizes: 8mm, 6mm, 4mm, 2mm, 1mm) Spade Quick Splice Terminals Connectors)) Spade Quick Splice Terminals Connectors) Space Quick Splice Terminals Connectors) Set Space Quick Splice Terminals Connector	Fibre Scieve (Sizes: form & Smm (Length: 100/min) NO 200 Heat Sinking Tube (Sizes: 8mm. fmm, 4mm. Jmm. lmm) Imm. lmm] Heat Sinking Tube (Sizes: 8mm. fmm, 4mm. Jmm. lmm) Heat Sinking Tube (Sizes: 8mm. fmm, 4mm. Jmm. lmm) Spade Quick Splice Terminals Connectors) Spade Bullet, Fork, Set Table Quick Splice Terminals Connectors) Spade Bullet, Fork, Set Table Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors) Spade Bullet, Fork, Set Table Paper (Thickness Imm, Length: Spamm (Ring type) No Quick Splice Terminals Connectors) Spade Bullet, Fork, Set Table Paper (Thickness Imm, Length: Spamm (Ring type) No Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors Spade Bullet, Fork, Set Table Paper (Thickness: Jamn, Length: Spamm (Ring type) No Quick Splice Terminals Connectors No Quick Splice Terminals Connectors No Quick Splice Terminals Connectors	Fibre Scieve (Sizes: form & Smm (Length: 1000mm) Heat Shinking Tube (Sizes: Smm (nm.) 4mm, Jmm, Imm) Heat Shinking Tube (Sizes: Smm (nm.) 4mm, Jmm, Imm) Heat Shinking Tube (Sizes: Smm (nm.) 4mm, Jmm, Imm) Heat Shinking Tube (Sizes: Smm (nm.) 4mm, Jmm, Imm) Spade Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors) Spade Quick Splice Terminals Connectors) Set should include: minimumm of quantity 20 nos for each type, total quantity 100) Set should include: minimumm of quantity 20 nos for each type, total quantity 100) Spade Quick Splice Terminals Connectors) Spade Quick Splice Terminals C	Fibre Scieve (Sizes: form & Smm (Length: 1000mm) NO 200 Heat Shinking Tube (Sizes Smm, form, 4mm, 2mm, 1mm) Imm) No 200 Heat Shinking Tube (Sizes Smm, form, 4mm, 2mm, 1mm) No 200 Spade Quick Splice Terminals Connectors)
Heat Sinking Tube (Sizes Smm, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes Smm, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Sinking Tube (Sizes Sizes 1) Spade , Quick Splice Terminals Connectors) Set simulated Cu Cable Lugs and splicer (Sizes :3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :3sqmm) (Types: Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :4sqmm) (Types Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :4sqmm) (Types Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :5sq.mm) (Types Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :5sq.mm) (Types Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :5sq.mm) (Types Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :5sq.mm) (Types Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :5sq.mm) (Types Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :5sq.mm (Ring type)) Solidated Cu Cable Lugs and splicer (Sizes :5sq.mm (Ring type)) NO 2 Presspan Paper (Thickness Imm, Length: 1500mm & Breath: 1000mm) KG 1 Fore Caspan Paper (Thickness Imm, Length: 1500mm & Breath: 1000mm) KG 1 Fore Type Tube Paper (Thickness: 10mm, Inner Diameter: 18mm, Outer Dia: 8mm, Length: NO 4 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Heat Simiking Tube (Sizes Smm, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Simiking Tube (Sizes Smm, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Simiking Tube (Sizes Signm) (Types Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes 2,54mm) (Types. Butt Ring, Spade Bullet, Fork, Spade C, Quick Splice Terminals Connectors)) Set Shade, Quick Splice Terminals Connectors) Set Shade, Quick Splice Terminals Connectors) Set Shade, Quick Splice Terminals Connectors) Spade, Quick Splice Terminals Connectors) Spade Bullet, Fork, Inst. Lated Cu Cable Lugs and splicer (Sizes: 354,mm) (Types. Butt Ring, Spade Bullet, Fork, Inst. Lated Cu Cable Lugs and splicer (Sizes: 354,mm) (Ring type) No Spade, Quick Splice Terminals Connectors) Spade Bullet, Fork, Inst. Lated Cu Cable Lugs and splicer (Sizes: 105,mm) (Ring type) No Spade, Quick Splice Terminals Connectors) Spade Bullet, Fork, Inst. Lated Cu Cable Lugs and splicer (Sizes: 155,mm) (Ring type) No Spade, Quick Splice Terminals Connectors) No Spade, Quick Splice Terminals Connectors) No Spade Bullet, Fork, No Set	Heat Simiking Tube (Sizes Simm, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Simiking Tube (Sizes Simm, 6mm, 4mm, 2mm, 1mm) Heat Simiking Tube (Sizes Simm, 6mm, 4mm, 2mm, 1mm) Heat Simiking Tube (Sizes Simm) (Types Butt Ring, Spade Bullet, Fork, Insul and Cu Cable Lugs and splicer (Sizes :3sqmm) (Types. Butt Ring, Spade Bullet, Fork, Insul and Cu Cable Lugs and splicer (Sizes :3sqmm) (Types. Butt Ring, Spade Bullet, Fork, Insul and Cu Cable Lugs and splicer (Sizes :3sqmm) (Types. Butt Ring, Spade Bullet, Fork, Insul and Cu Cable Lugs and splicer (Sizes :3sqmm) (Types. Butt Ring, Spade Bullet, Fork, Insul and Cu Cable Lugs and splicer (Sizes :3sqmm) (Types. Butt Ring, Spade Bullet, Fork, Insul and Cu Cable Lugs and splicer (Sizes :3sqmm) (Types. Butt Ring, Spade Bullet, Fork, Insul and Cu Cable Lugs and splicer (Sizes :3sqmm) (Types. Butt Ring, Spade Bullet, Fork, Insul and Cu Cable Lugs and splicer (Sizes :5sqmm) (Types. Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :5sqmm) (Types. Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :5sqmm) (Types. Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :10sqmm) (Types. Butt Ring, Spade Bullet, Fork, Insulated Cu Cable Lugs and splicer (Sizes :10sqmm) (Ring type)) Set span Paper (Thickness Insulated Sizes :10sqmm) (Ring type)) No	Heat Simiking Tube (Sizes Sim, 6mm, 4mm, 2mm, 3mm, 1mm) Heat Simiking Tube (Sizes Sim, 6mm, 4mm, 2mm, 1mm) Heat Simiking Tube (Sizes Sim, 6mm, 4mm, 2mm, 1mm) Heat Simiking Tube (Sizes Sim, 6mm, 4mm, 2mm, 1mm) Heat Simiking Tube (Sizes Sim, 6mm, 6mm, 4mm, 7mm, 1mner Diameter: 24mm, Outer Dia: 22mm, Length: NO Set Simouth include: minimumm of quantity 20 nos for each type, total quntity 100) Set Simouth atted Cu Cable Lugs and splicer (Sizes: 3sqnm) (Types: But Ring, Spade Bullet, Fork, 1msul anted Cu Cable Lugs and splicer (Sizes: 3sqnm) (Types: But Ring, Spade Bullet, Fork, 1msul anted Cu Cable Lugs and splicer (Sizes: 3sqnm) (Types: But Ring, Spade Bullet, Fork, 1msul anted Cu Cable Lugs and splicer (Sizes: 3sqnm) (Types: But Ring, Spade Bullet, Fork, 1msul anted Cu Cable Lugs and splicer (Sizes: 3sqnm) (Types: But Ring, Spade Bullet, Fork, 1msul anted Cu Cable Lugs and splicer (Sizes: 3sqnm) (Types: But Ring, Spade Bullet, Fork, 1msul anted Cu Cable Lugs and splicer (Sizes: 3sqnm) (Types: But Ring, Spade Bullet, Fork, 1msul anted Cu Cable Lugs and splicer (Sizes: 3sqnm) (Types: But Ring, Spade Bullet, Fork, 1msul anted Cu Cable Lugs and splicer (Sizes: 3sqnm) (Types: But Ring, Spade Bullet, Fork, 1msul anted Cu Cable Lugs and splicer (Sizes: 3sqnm) (Types: But Ring, Spade Bullet, Fork, 1msul anted Cu Cable Lugs and splicer (Sizes: 3sqnm) (Ring type)) Set simouth ring the spater (Thickness: 1mm, Length: 1500mm & Breath: 1000mm) Ros for each type, total quntity 100 Curepe Tube Paper (Thickness: 1mm, Length: 1500mm & Breath: 1000mm) Ros for each type, total quntity 100 Curepe Tube Paper (Thickness: 1mm, Length: 1500mm & Breath: 1000mm) Ros for each type, total quntity 100 Curepe Tube Paper (Thickness: 2mm, Inner Diameter: 12mm, Outer Dia: 22mm, Length: NO 1 Corper Tube Paper (Thickness: 2mm, Inner Diameter: 24mm, Outer Dia: 28mm, Length: NO
Heat Sinking Tube (Sizes: 8mm, 6mm, 7mm) (Types: Butt Ring, Spade Bullet, Fork, Insula_ated Cu Cable Lugs and splicer (Sizes: 3-qmm) (Types: Butt Ring, Spade Bullet, Fork, Set Should include: minimumm of quantity 20 nos for each type, total quntity 100) Spad = Quick Splice Terminals Connectors) Spad = Quick Splice (Firminals Connectors) Spad = Quick Splice (Firminals Connectors) Spad = Quick Splice Terminals Connectors) Spad = Should include: minimumm of quantity 20 nos for each type, total quntity 100) Spad = Quick Splice Terminals Connectors) Spad = Spad = Quick Splice Terminals Connectors) Spad = Spad = Quick Splice Terminals Connectors) Spad = Spad = Spad = Splicer (Sizes: 3-Sq.mm) (Types: Butt Ring, Spade Bullet, Fork, Inst. lated Cu Cable Lugs and splicer (Sizes: 3-Sq.mm) (Types: Butt Ring, Spade Bullet, Fork, Inst. lated Cu Cable Lugs and splicer (Sizes: 3-Sq.mm) (Types: Butt Ring, Spade Bullet, Fork, Inst. lated Cu Cable Lugs and splicer (Sizes: 3-Sq.mm) (Types: Butt Ring, Spade Bullet, Fork, Inst. lated Cu Cable Lugs and splicer (Sizes: 3-Sq.mm) (Types: Butt Ring, Spade Bullet, Fork, Inst. lated Cu Cable Lugs and splicer (Sizes: 3-Sq.mm) (Types: Butt Ring, Spade Bullet, Fork, Inst. lated Cu Cable Lugs and splicer (Sizes: 3-Sq.mm) (Types: Butt Ring, Spade Bullet, Fork, Inst. lated Cu Cable Lugs and splicer (Sizes: 19smm (Ring type)) NO 22 N	Heat Sinking Tube (Sizes 8mm, 6mm; 11mm; 2mm; 2mm; 2mm; 12mm; 12mm; 2mm;	Heat Sinking Tube (Sizes Smm_Nomin_Humit_colors)	Heat Sinking Tube (Sizes Smm_Onnin_tubus_comectors) Spade Quick Splice Terminals Connectors) Space Quick Splice Te
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Insul a red Cu Cable Lugs and splicer (Sizes :2sqmm) (Types: Butt Ring. Spade Bullet, Fork, Spade e., Quick Splice Terminals Connectors))	Insul = _ ted Cu Cable Lugs and splicer (Sizes :2sqmm) (Types: But Ring. Spade Bullet, Fork, Spad. =_, Quick Splice Terminals Connectors)) Spad. =_, Quick Splice Terminals Connectors) Spad. =_, Quick Splice Terminals Connectors Spad. =_, Quick Splice Terminals Conn	Insul a_ted Cu Cable Lugs and splicer (Sizes: 2sqnmn) (Types: Butt Ring. Spade Bullet, Fork, Spade, Quick Splice Terminals Connectors))	Insula_red Cu Cable Lugs and splicer (Sizes: 2sqnmn) (Types: Butt Ring, Spade Bullet, Fork, Insula_red Cu Cable Lugs and splicer (Sizes: 3sqnmn) (Types: Butt Ring, Spade Bullet, Fork, Spada_e, Quick Splice Terminals Connectors))
Spade—, Quick Splice Terminals Connectors) Set st—aould include: minimumm of quantity 20 nos for each type Insul =ated Cu Cable Lugs and splicer (Sizes: 2sqmm) (Types: Butt Ring, Spade Bullet, Fork, Spade e, Quick Splice Terminals Connectors)) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100) Set =should include: minimumm of quantity 20 nos for each type, total quntity 100 NO	Spad = , Quick Splice Terminals Connectors)	Spade	Spade
Set st-would include: minimumm of quantity 20 hos in each type. Butt Ring. Spade Bullet, Fork, Set	Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Spacee., Quick Splice Terminals Connectors) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-bould include: minimumm of quantity 20 nos for each type, total quntity 20 nos fo	Set st-would include: minimumm of quantity 20 nos for each type, total quntity 100) Spade Quick Splice Terminals Connectors) Spade Quick Splice Termi	Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimumm of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimum of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimum of quantity 20 nos for each type, total quntity 100) Set st-ould include: minimum of quantity 20 nos for each type, total quntity 100 nos fo
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71 Crepe Tube Paper (Thickness: 2mm, Inner Diameter: 30mm, Outer Dia: 34mm, Length:	NO	400	
7) Code short (I cooth 2) Breath 2) & Thickness farm)	EA	100	
\perp	X	250	
L	EA	10	
	T	60	
	L	90	
Noke grey paint (5 lifte Container)	1	70	
Dendrite (1 Litre Container)	1,	200	
/o Fevicol (1 Litre Container)	KG	10	
/9 MS welding rod (3.2 mm, 3mm)	KG.	10	
80 MS welding rod (4.2 mm, 4mm)	D. A.	2 3	
81 Copper Welding rod (E-206)	NO.	2 1	
82 Brass Brazing rod (3.2mm)	D. C.	5	
	200	10	
84 MS Brazing Rod (2.6mm)	200	10	
85 Hack saw blade (1" Double)	NO	200	
86 HSS Tool Bits ((6 x6x64))	NO	C	
	NO	5	
	SHT	2	
89 Mg sheet (2500 x1350 v3 mm)	SHT	2	
	M	2	
	FT3	20	
92 Plywood ((Thickness:<0mm, Length:8' & Breath:4')	NO	10	
93 PVC Insulated Cu wire (1solid strand (Dummy) (6sqmm))	M	200	
94 Cable tie ((4", 5", 6", 8"))	NO	4000	
95 Helmet (White)	NO	13	
	KG	800	
1	L	50	
	L	20	

