Nepal Electricity Authority

Transmission Directorate

Nepal India Electricity Transmission and Trade Project Procurement of Plant Design, Supply and Installation of Power Fransformer and Reactor for Hetauda and Inaruwa Substations ICB No. NIETTP/G/ICB-5/TRANS

Clarification No. 1

S.No.	Bidder Queries	Reference to Bid Document	NEA Clarification
A. Tec	chnical		
1	We request NEA to amend the referred clause as below: Manufacturer should have successfully carried out Dynamic Short Circuit test on any rating of 220 kV or above voltage class transformer as per IEC in Short- Circuit Testing Liaison (STL) accredited laboratory as on the originally scheduled date of bid opening and	Section III. Evaluation and Qualification Criteria 1 Power Transformer	Provision of bidding document remains unchanged.
	offered 220kV class transformer shall be carried out based on the design of short circuit tested 220 kV or above voltage class transformer.	scheduled date of bid opening and shall enclose the relevant Test Report/certificate along with bid. iv) The validity of test reports of transformer shall be within last ten (10) years prior to the originally scheduled date of bid	
- 2	Dynamic Short Circuit test is to be submitted. All	opening. Further, design review of offered 220kV class transformer shall be carried out based on the design of short circuit tested 220 kV or above voltage class transformer.	Confirmed

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S.No.	Bidder Queries	Reference to Bid Document	NEA Cla
3		Volume I of III Section III. Evaluation and Qualification Criteria 1 Power Transformer 2.7 Subcontractors/Manufacturers iv) The validity of test reports of transformer shall be within last ten (10) years prior to the originally scheduled date of bid opening. Further, design review of offered 220kV class transformer shall be carried out based on the design of short circuit tested 220 kV or above voltage class transformer.	
4	Referred clause contradicts each other. We understand that The validity of test reports of transformer shall be within last ten (10) years prior to the originally scheduled date of bid opening. Please confirm.	Volume II of III Chapter 3- 220kV Class Specifications for Transformers The validity of Type tests (except dynamic short circuit test) of Transformer shall be 5 years as on the date of NOA, provided that offered transformer is of same design as that of type tested transformer and active materials like – CRGO, copper conductor and insulation material are of same or better grade with respect to type tested unit. Failing which, type testing of transformer shall be carried out by the contractor at his own cost. Further, type test report of Transformer from the same manufacturing plant shall only be acceptable. With regard to Validity of Dynamic short circuit test, refer clause 3.12 above.	whereas validity of ty 5 years as on the date



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ic short circuit test shall (10) years prior to the ed date of bid opening type test report shall be the of NOA

S.No.	Bidder Queries	Reference to Bid Document	NEA CI
5	local transportation, training materials, to and fro economy class air ticket from Nepal to place of training and payment of USD 100 per Diem	Volume II of III 8.0 TRAINING TO EMPLOYER'S PERSONNEL (at Manufacturer's Works) Contractor shall provide necessary training to Employer's personnel in the field of design, engineering, operation & maintenance of equipments as per Schedules of Rates and Prices. The Contractor shall include in the training charges Employer trainees' lodging, local transportation, training materials, to and fro economy class air ticket from Nepal to place of training and payment of USD 100 per Diem allowances per trainee per day for the duration of training.	Not acceptable
6	We understand that Reactor supply is not our scope only transportation and commissioning in Bidders scope. Kindly confirm. Also please provide Reactor drawing and weight / Packing List to calculate the transport cost of the same to site.	Values II of III	Confirmed. Weight/p with this clarification
7	For 25MVAR reactor, Appart from the spare mentioned in the Schedule of supply no other items are considered in bidder scope of supply. Please	1 no. 145 kV, 25MVAR, 3-Phase Bus Reactor at Inaruwa substation and spare parts for Siemens Make Bus Reactor.	Confirmed
8	No reactor is in our scope of supply and hence no type test reports are applicable for reactor. Please confirm.		Confirmed
9	Any Cables Lugs, Termination glands, ferrules, Cable Tie, Cable marking apart from our supplied cables are not in Bidder scope. Please confirm		Confirmed



Clarification
/packing list is attached
on

S.No.	Bidder Queries	Reference to Bid Document	NEA Clarification
10	providing sufficent input data for proper integration	2.2 Chapter 1- Project Specification Requirement (PSR) The Contractor shall also be responsible for the overall co- ordination with internal/external agencies, other contractors	
11	present scope of supply. Please reconfirm for the reactor equipment training.	2.3 Chapter 1- Project Specification Requirement (PSR) The scope includes training of Employer's manpower and testing & commissioning as specified in the Schedules of Rates and Prices.	Traning of reactor is also in present scope
12	We are not considering any cable supports structures or trays or for MV or for LV cables or any Bus. Please confirm.		Confirmed
13	We assumed suitable lightning protection already considered by switchyard contractor and we need not to consider any material related to Lightning protection. Please confirm.		Confirmed
14	Transient or radio interference or surge voltage study are not in bidder scope of service. Please confirm.	Volume II of III Chapter 2 - GTR 18.11 For equipments rated for 400 kV and above the wiring required in these items shall be run in metallic ducts or shielded cables in order to avoid surge overvoltges either transferred through the equipment or due to transients induced from the EHV circuits.	Confirmed
15	Please specify the Transformer seismic level as a design input.		0.5g (Horizontal peak acceleration value)
16	Kinldy confirm	Volume II of III 4.2 Chapter 1- Project Specification Requirement (PSR) 4.2 Meteorological data :	Confirmed



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S.No.	Bidder Queries	Reference to Bid Document	NEA Clarification
17	Impulse study and related filters, surge protection,	Volume II of III 18.12, CHAPTER 2 - GENERAL TECHNICAL	As per provision of bid document
18	No Rotating equipments are applicable in our scope of works and hence this class not applicable.	Volume II of III 13.12 Equipment Bases A cast iron or welded steel base plate shall be provided for all rotating equipment which is to be installed on a concrete base unless otherwise agreed to by the Employer.	-
19	Under the present scope no supply CB is applicable also first fill of consumables oil we are not considering the first fill oil shall be as per the schedule of supply and the same shall be used for first filling of transformer.	6.4 FIRST FILL OF CONSUMABLES, OIL AND LUBRICANTS	As per provision of bid document
1 20 1	Overall system design is not in Bidders scope. Please confirm.	Volume II of III 7.3 DESIGN IMPROVEMENTS / COORDINATION The Contractor shall be responsible for the selection and design of appropriate equipments to provide the best coordinated performance of the entire system.	I
21	for reactor.	Supplied from abroad C3.F. 36kV Bushing with metal parts and gaskets along with lifting tools -1 No	Confirmed
22	11kV cables or conductor clamps& Connectors are not in bidder scope of supply. Please confirm.	2.4 Chapter 1- Project Specification Requirement (PSR) The scope includes supply of transformer bushing end terminal connectors	Confirmed
23		Schedule No. 1 : Plant (including Mandatory Spare Parts) Supplied from abroad 10MVA, 132/11 kV, 3-phase Power Transformer	
Clarificati	ion No. I	Sky -	dar

S.No.	Bidder Queries	Reference to Bid Document	NEA C
24	We are not considering any civil works in bidden scope. Please confirm	General Scope of work Civil work	Design of foundation as per requirement is
25	tackels are to be provided to Employer for non- returnable basis please confirm the quantity and type of equipments.	 10.2.2 Chapter 2- General Technical Requirement (GTR) Any special equipment, tools and tackles required for the successful completion of the Commissioning Tests shall be provided by the Contractor, free of cost. 	No need to provide t
26	This point conflicting with the Exclusion scope of Clause 3.0 .a (Overhead connection from HV, IV & LV bushings of the Transformers and Bus Reactor to substation equipment). Apart from the supply equipment no other equipments checks are in bidder scope. Kindly confirm.	13.4 Chapter 2- General Technical Requirement (GTR) Contractor shall also do necessary adjustments/alignments	As per site require align the supplied e necessary
27	Please specify the list of special tools and tackles, bidder should consider the list. Please confirm the price to be mentioned in separate line item or not.	Volume II of III 14.0 Chapter 2- General Technical Requirement (GTR) SPECIAL TOOLS AND TACKLES	Bidder shall provid tackles which are (decided during deta bidding document and in transformer.
	or anywhere apart from internal transformer) are not in bidder scope. Please confirm.	SCADA Integration - Optical Temperature Sensors & Measuring Unit, Online Dissolved Gas (Multi-gas) and Moisture Analyser, On- line insulating oil drying system (Cartridge type) etc.	Confirmed
29	Any Cables Lugs, Termination glands, ferrules, Cable Tie, Cable marking appart from our supplied cables are not in bidder scope. Please confirm	General	Confirmed



Clarification

ion and soil investigation is in present scope

tools and tackles

rement, bidders have to equipment and adjust if

vided special tools and e proprietary in nature tailed engineering) as per and price to be included

S.No.	Bidder Queries	Reference to Bid Document	NEA CI
30	SCADA Integration. However, Scope of supply of Ethernet Switch along with fiber optic cable, power cable, control cables along with Integration to SCADA	Technical Specification, Chapter 3- 220kV Class Specifications for Transformers 14. SCADA Integration All the online monitoring equipment i.e. Optical Temperature Sensors & Measuring Unit, Online Dissolved Gas (Multi-gas) and Moisture Analyser, On-line insulating oil drying system (Cartridge type) etc. provided for individual transformer unit including spare (if any), are IEC 61850 compliant (either directly or through a Gateway). These monitoring equipment are required to be integrated with SAS through managed	Confirmed
31	existing substation SCADA	Ethernet switch conforming to IEC 61850	Siemens make
32	We understand that since these equipment are not specified in the Bid Price schedule (Vol - 3) Hence are not in scope. Please confirm.	Specifications for Transformers	As per provision of b
33	We understand that since mentoined equipment are not specified in the Bid Price schedule (Vol - 3) Hence are not in scope. Please confirm.	Volume II of III Technical Specification, Chapter 3- 220kV Class Specifications for Transformers 19. Fittings & accessories On line insulating oil drying system(if specified in BPS) as per Annexure-K	As per provision of b
34	We understand that Fire protection system (NIFPS And/or Fire Hydrant System are not in bidder scope of work. Kindly confirm.		As per provision of b
	We understand that since mentoined test is not specified in the Bid Price schedule (Vol - 3) Hence is not in scope. Please confirm.	Specifications for Transformers Annexure -B	As per provision of bi
Clarificat	tion No. I	Dynamic Short circuit withstand test (If specified in BPS)	lan

Clarification No. I

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S.No.	Bidder Queries	Reference to Bid Document	NEA Cla
36	No limit on performance liquidated damages (LD) has been defined in the tender specification. It is requested to limit the performance LD to 10% of the total Contract Price.	Appendix-8, Functional Guarantees,	Refer GC 26
37	manufacturer's works as well as during pre	Volume I Section VIII,PC 24.3 Completion of Facilities Man days for training pertaining to equipment maintenanace & operation at manufacturer's works as well as during pre commissioning	Refer BPS
38	For 63 MVA, 220/33kV Two winding Power Transformer -02 No's; we don't have similar short circuit tested design for conducting design review. We propose to conduct design review with following SC	Design review of offered 220kV class transformer shall be carried out based on the design of short circuit tested 220 kV	As per provision of b
39	tested transformer:- a. 50 MVA, 132/33 kV, Two winding Power	Volume I of III Section III. Evaluation and Qualification Criteria 1 Power Transformer	
40	For above tapping, it is very difficult to achieve impedance with in IEC tolerance. Hence, we are proposing impedance tolerance of ±15% for maximum & minimum tapping's	ii) The impedance pattern specified is (HV-LV)	Provision of biddir unchanged.

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S.No.	Bidder Queries	Reference to Bid Document	NEA Cl
		Regarding 10MVA, 132/11kV Power Transformer	
		i) The tapping range of transformer is +5% to -15% in steps of	
	For above tapping, it is very difficult to achieve	1.25% for HV variation	
41	impedance with in IEC tolerance. Hence, we are	ii) The impedance pattern specified is (HV-LV)	Provision of biddir
41	proposing impedance tolerance of ±15% for maximum	Maximum: 8.26%	unchanged.
	& minimum tapping's	Principal: 10%	U U
		Minimum: 12.34%	
		iii) Tolerance specified for above impedance is IEC Tolerance	
		Volume II	
		Technical Specification, Chapter 3- 220kV Class	
	Please share the Existing transformer OLTC scheme		
42	drawings to check the integration possibility of	1.2.	There is no exisiting
	parallel operation.	i) The percentage impedance, vector group, OLTC connection	
		and range etc. of the transformer is to be matched with that of	
		the existing transformer.	
	We assumed the existing reactor already has the		
	internal Fiber optic cables to optical sensor box		
43	,ethernet switches and FO / Control cables upto		To be confirmed duri
15	Panels. Hence we are not considering any special		To be confirmed duri
	cables/FO cables/ LT power and control cables for		
	Reactor.		
	If the DM to digital RTCC in contractor scope please		
44	specify the distance between the transformer location		Will be provided duri
	to the Digital RTCC panel location.	General	in the provided dur
		RTCC Panel	
	Kindly confirm, Bushing CT knee point voltage to be		
45	mentioned for consideration (Based on the existing		Will be confirm
	protection relay)	General	engineering.
		Bushing CT knee point voltage	
	We presum that list of mandatory spares can be	Valuma III	
	offered from any make apart from Siemens make as	Technical Specification	
46	mentioned in the Bid Price Schedule. Kindly confirm.	Schedule No. 1 : Plant (including Mandatory Spare Parts)	Confirmed but the
46		Supplied from abroad	spares can be used
		Item C3. Mandatory Spare List for Mandatory Spares for	Siemens make reactor
		25MVAR, 145 KV Three Phase Bus Reactor (Siemens Make)	

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ding document remains
g transformer.
uring installation.
uring detail engineering.
rmed during detail
ne supplied mandatory d with already supplied tor.

S.No.	Bidder Queries	Reference to Bid Document	NEA Clarification
	nmercial		
	We understand that the hinderance free Site to	The Contractor shall commence work on the Facilities within	As per the provision of bidding document.
48	We understand that the Price shall be firm and shall not be adjusted for the Contract scope of works until original duration of the Project. However, in case of any delay in the Project beyond six months from original duration of the Contract (duration specified in the Contract document) for reasons not attributable to Contractor, then the prices shall be mutually agreed for any impacts faced by the Contractor.	Volume I Section VIII Particular Conditions PC 11. Contract Price The Contract Price shall be firm and shall not be adjusted.	As per the provision of bidding document.
49	isecurity by Contractor for any extended defect hability	PC 13.3.3	As per the provision of bidding document.
50	We accept four weeks, however or in some special cases where it is not practical to restore within 4 weeks, the duration shall be on mutual agreement. Please confirm	Volume I Section VIII Particular Conditions PC 21.3.4 Procurement In case of any damage, the Contractor shall restore all such facilities, as soon as possible but not longer than four weeks to its original condition at its own expense and to the satisfaction of the Employer."	
51	Please we request your to consider DLP period to be 12 months from date of operational acceptance or 15 months from the date of Completion, which ever is earlier. Kindly confirm	PC 27. Defect Liability	As per the provision of bidding document.



S.No.	Bidder Queries	Reference to Bid Document	NEA Clarification
	Please confirm if any statutory approval/compliance, specific for the Project, needs to be obtained by the Project Owner such as environmental clearance etc., If Yes, are such approvals in place/ will be in place at the time of award of Contract. Please clarify	General General	If any will be provided at appropriate time
53	The provisions of this GC Clause 16 shall survive for a period of 5 years from termination/expiry, for whatever reason, of the Contract. Please confirm		As per the provision of bidding document.
54	We understand that the Contractor shall be under no	land whether under the Contract or at law, in respect of defects	As per the provision of bidding document.
55	The Contractor shall not indemnify against the claims of Intellectual Property as regards the sale of the products produced by the Facilities in any country. Since, the product produced by the Facility is not owned by the Contractor, Contractor cannot be held accountable for the said intellectual property. Please confirm	Volume I Section VII 29.1 GCC Patent Indemnity	As per the provision of bidding document.
56	We understand venue of Arbitration would be headquaters of Arbitration Institution. UNCITRAL not	 Volume I Section VII 46.5 GCC a) For contracts with foreign contractors: (i) international arbitration with proceedings administered by the international arbitration institution appointed in the PC, in accordance with the rules of arbitration of the appointed institution;, (ii) the place of arbitration shall be the city where the headquarters of the appointed arbitration institution is located or such other place selected in accordance with the applicable arbitration rules; and 	As per the provision of bidding document.

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S.No.	Bidder Queries	Reference to Bid Document	NEA Clarification
57	We propose to include English Law as governinig Law of Contract. Kindly confirm	Volume I Section VIII 5 PC PC 5. Law and Language PC 5.1 The Contract shall be interpreted in accordance with the laws of: Nepal. PC 5.2 The ruling language is: English PC 5.3 The language for communications is: English	Devicing of highly days of
58	concessional customs duty and VAT exemption.	Volume I or III Section VIII. Particular Conditions 14.2.1 Taxes and Duties The Project is entitled for 1% custom duty and VAT exemption. The Contractor has to follow all the procedures to import Plant & Mandatory Spare Parts to be supplied from abroad in Price Schedule No. 1. The Contractor shall pay all the taxes and duties applicable at the point of entry (custom).	project
59	Contractor in the country of Nepal, whether the Sub- Contractor can import Goods under concessional	Employer will refund such amount to the Contractor upon submission of the related original documents. However, Employer will not be responsible for any demurrage charges applicable due to delay in custom clearance.	-
60	In our current contracts, NEA has informed that If the Invoices against the materials dispatched against Price Schedule - 1 are not raised from Nepal by the contractor, 5% TDS will be deducted. Kindly clarify, what is the rate of TDS applicable for this tender. We sincrely request you to kindly share us complete clarity on this as confusion and dispute has arised in our existing contract.	Volume I or III Section VIII. Particular Conditions 14.2.3 Tax Deduction at Source (TDS) - As per the law of Nepal the Employer will deduct TDS at the rate as applicable at the time of execution of the contract from each payment to the Contractor and deposit to the Revenue office. The Contractor shall be provided with all details in this regard promptly. The Contractor shall be responsible for obtaining tax clearance before issuance of Final Acceptance Certificate or before releasing the final 5% retention amount.	TDS changes during execution of contract, changed rate will be applicable.



S.No.	Bidder Queries	Reference to Bid Document	NEA CI
61	Kindly clarify whether the payment against Price Schedule - 1 will be made to contractors country in India OR it will be made in Nepal. We request for a clarity as the Invoicing modality will depends on this i.e. either from India OR from Nepal.	Volume I or III Section IX Contract Forms Contract Agreement 2.2 Contract price and terms of payment 2.2 Terms of Payment (Reference GC Clause 12) The terms and procedures of payment according to which the Employer will reimburse the Contractor are given in the Appendix (Terms and Procedures of Payment) hereto. The Employer may instruct its bank to issue an irrevocable	Payment can be ma India depending up terms & conditions
62	It is quiet clear that the INCOTERM is CIP and payment will be made to the contractors country against irrevocable L/C. Kindly confirm that, all Invoices against Price Schedule - 1 needs to be raised from outside Nepal.	Volume I or III Section IX Contract Forms Appendix - 1, Terms and Procedure of Payment Seventy percent (70%) of the total or pro rata CIP amount upon Incoterm "CIP", upon delivery to the carrier within forty- five (45) days after receipt of following invoice and documents through irrevocable letter of credit opened in favor of supplier bank:	
	take to arrange for the concessional customs duty certificate issued by appropriate authority in Nepal. Kindly clarify what all documents the contractor needs to submit NEA for obtaining the Concessional duty certificate.	Volume I or III Section VIII. Particular Conditions 21.4 Custom Clearances; The Contractor shall familiarize himself with the rules and regulations of Nepal with regard to customs, duties, taxes, importation and clearing of goods and equipment and the like and the Contractor shall follow the required procedures regardless of the relief provided by the Employer. The Employer will provide assistance whenever possible	mentioned in terms of



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nade either in Nepal or ipon invoicing and LC								
reeks. Documents as								

S.No.	Bidder Queries		
	Diddei Queires	Reference to Bid Document	NEA C
1	Kindly confirm, 1.5% WHT will be applicable on	Volume I or III	1.5% TDS will
64	which portion of the Contract if the Contractor is	Section VIII. Particular Conditions	transportation and
	regsitered in Nepal for executing Long term contracts	Taxes and Duties	contractor is registe
	OR 5% WHT will be deducted.	With Holding Tax	be as per law at the
	It is requested to include sub paragraph (ii) of sub	Volume I	per tant at and
	article-20(a) of Uniform Rules for Demand Guarantee	Section-IX, Contract Forms	
	(URDG) ICC publication no. 758 in the PBG text	Performance Security Form- Bank Guarantee	
65	which is presently excluded. Accordingly, the last para	Performance Security Form	Provision of bidd
05	in PBG text shall be:	-	
	This guarantee is subject to the Uniform Rules for		unchanged.
	Demand Guarantees(URDG) 2010 Revision, ICC		
	Publication No. 758.		

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Clarification No. I

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vill be applicable on nd installation portion if stered in Nepal. TDS will he time of execution.

ding document remains

ANNEXURE - I Packing Details for 25MVAR, 145kV Shunt Reactor Sr. No. I300160/01 including Insulating oil

ANNEXURE -I 25 MVAR Shunt Reactor DATE: 25.03.2017 WO.: NA SO.: 5000399 SR. No. I300160/01

INTERNATIONAL DIVISION THANE

PACKAGE DETAILS FOR WO I300160/01

Sr. No.	Description	No. of Package	Case/Box No.	Package Type				Total CBM	Total Net WL/Per Box (kg.)	Total Gross Wt/Per Box (kg.)	Total Net (Eg.)	Total Gross Wt. (kg.)
1	Conservator	1	2	Unpacked	2.40	1.15	2.10	5.80	1050.00	1100.00	1050.00	1100.00
2	HV Bushing	1	3	Wooden Box	3.00	0.60	0.70	1.26	142.00	200.00	142.00	200.00
3	HV Bushing	1	4	Wooden Box	3.00	0.60	0.70	1.26	142.00	200.00	142.00	200.00
4	HV Bushing	1	5	Wooden Box	3.00	0.60	0.70	1.26	142.00	200.00	142.00	200.00
5	Neutral Turret	1	6	Wooden Box	1.00	0.90	1.00	0.90	200.00	250.00	200.00	250.00
6	HV Turrets	1	7	Wooden Box	1.75	0.95	1.80	2.99	400.00	500.00	400.00	500.00
7	HV Turrets	1	8	Wooden Box	1.75	0.95	1.80	2.99	400.00	500.00	400.00	500.00
8	HV Turrets	1	9	Wooden Box	1.75	0.95	1.80	2.99	400.00	500.00	400.00	500.00
9	Glass Items	1	10	Wooden Box	1.50	1.50	1.10	2.48	300.00	400.00	300.00	400.00
10	Pipes & Supports	1	11	Wooden Box	3.20	1.55	1.10	5.46	850.00	1000.00	850.00	1000.00
11	Pipes & Supports	1	12	Wooden Box	4.34	0.65	0.75	2.12	400.00	500.00	400.00	500.00
12	Rollers	1	13	Wooden Box	1.10	1.10	0.70	0.85	300.00	350.00	300.00	350.00
13	Radiators	1	14	Wooden Crate	2.30	1.80	1.30	5.38	1300.00	1500.00	1300.00	1500.00
14	Radiators	1	15	Wooden Crate	2.30	1.80	1.30	5.38	1300.00	1500.00	1300.00	1500.00
15	Radiators	1	16	Wooden Crate	2.30	1.80	1.30	5.38	1300.00	1500.00	1300.00	1500.00
16	Radiators	1	17	Wooden Crate	2.30	1.80	1.30	5.38	1300.00	1500.00	1300.00	1500.00
17	Radiators	1	18	Wooden Crate	2.30	1.80	1.30	5.38	1300.00	1500.00	1300.00	1500.00
18	Radiators	1	19	Wooden Crate	2.30	1.80	1.30	5.38	1300.00	1500.00	1300.00	1500.00
	TOTAL :(A) For Accessories	18						62.64			12526.00	14700.00
19	Main Transformer (Gas Filled)	1	1	Unpacked	5.60	2.50	2.60	36.40	33000.00	33000.00	33000.00	33000.00
	TOTAL :(B) For Main Unit	1						36.40			33000.00	33000.00
20	OIL IN DRUMS (1 Each Loose)	87	20 to 106	Drums	0.60	0.60	1.00	31.32	195.00	195.00	16965.00	16965.00
	TOTAL :(C) For Oil Drums	87	-			L		31.32	_		16965.00	16965.00
	SUB TOTAL :-(A+B+C)	106						130.36			62491.00	64665.00



