



**UNDERGROUND COAL GASIFICATION
PROJECT THAR**



Tender Document

- A) Supply of Transformers, Low Voltage/ Medium Voltage Switch Gears and Overhead Transmission Lines with Poles & Accessories.**
- B) Supply of Low Voltage & Medium Voltage Underground Cables.**

Tender No: UCG/114-11-15

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M/s

Invitation to Tender and General Instructions.

Dear Sir

I invite you to tender for the supply of Group- A "Supply of Transformers, Low Voltage/ Medium Voltage Switch Gears and Overhead Transmission Lines with Poles & Accessories" and Group-B "Supply of Low Voltage & Medium Voltage Underground Cables" in accordance with the description of items at Schedule "A" and "B".

2. Delivery of Tender: -

- a) Quotation must be complete in all respects. Please attach brochures where necessary.
- b) Only those quotations will be considered where necessary:
 - I) The bidders registered capital should be more than USD 5 million or Pak. Rupees 500 million.
 - II) The last two years of audited balance sheet and profit statement should be attached with the technical bid.
 - III) Certificates of satisfactory performance of Group- A "Supply of Transformers, Low Voltage/ Medium Voltage Switch Gears and Overhead Transmission Lines with Poles & Accessories" and Group-B "Supply of Low Voltage & Medium Voltage Underground Cables" from multiple customers using provided by the bidder should be provided.
- c) Earnest money equivalent to 2% of the total cost in the shape of Bank Draft or Pay Order or Bank Guarantee in favour of MD, UCG Thar must accompany the tender.
- d) The tender duly sealed will be addressed to: -
Procurement Officer
Underground Coal Gasification project Thar
C/O Manager, National Bank of Pakistan, Islamkot Branch, Islamkot
Tharparkar Sindh. Ph: # 0232-923008 Cell # 0345-2102922, 0344-4655000
Email: poucgtar@gmail.com

3. Date and Time For Receipt of Tender:

Your sealed tender must reach this office on the date and time specified in the "Schedule A & B / Tender Notice" at Underground Coal Gasification project Thar, C/O Manager, National Bank of Pakistan, Islamkot Branch, Islamkot, Tharparkar Sindh. Ph: # 0232-923008 Cell # 0345-2102922, 0344-4655000

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This Project will not accept any excuse of delay occurring in post. Tender received after the fixed date/time will NOT be entertained.

Alternately tender can be brought to the tender opening venue at Site of UCG Thar Project Block "V" Bhambnio Bheel Islamkot Dist: Mithi Sindh Pakistan, one hour before opening time.

4. Terms of Payment.

As per agreement with the successful bidder.

5. Warranty.

All goods/stores offered would be brand new, from current production and will be governed as per warranty clause.

6. Validity of Offer.

The validity period of quotations must be indicated and should invariably be 90 days from the date of opening of commercial offer.

7. Photocopies of Documents.

Following information/copy of documents must be provided/attached with offer: -

- a) A copy of letter from the Bank showing firm's financial capability.
- b) Income Tax and sales tax numbers mentioned on offer letter, and separate certificates for registration may also be attached.
- c) Copy of original Principal/Agency Agreement.

8. Disqualification.

Offers will be rejected if: -

- a) Earnest money is not attached with the offer.
- b) Offers are found conditional or incomplete in any respect.
- c) Manufacturer's relevant brochures and technical details on major equipment are not attached in support of specifications.
- d) Received later than appointed/fixed date and time.
- e) The validity of the agency agreement is expired.
- f) Validity of offer is not quoted as required in it or made subject to confirmation later.
- g) **Where the supplier or his Principal has not provided a verifiable list (with addresses & phone numbers) of end users of using Group- A "Supply of Transformers, Low Voltage/ Medium Voltage Switch Gears and Overhead Transmission Lines with Poles & Accessories" and Group-B "Supply of Low Voltage & Medium Voltage Underground Cables" along with certificates of satisfactory performance from end users.**

9. Rights Reserved.

UCG may reject all or any bid subject to relevant provisions of SPP Rules, 2010.

10. Application of Official Secret Acts.

All the matters connected with this enquiry and subsequent actions arising there from come within the scope of the official Secret Act, 1923. You are, therefore, requested to ensure complete secrecy regarding documents and stores concerned with the enquiry and to limit the number of your employees having access to this information.

11. Force Majeure.

As per international law.

12. Subletting.

Supplier is not allowed to sublet wholly or part of the contract to any other firm/company without prior permission of the Purchaser. Firm found in breach of this clause will be dealt with as per purchaser's right and discretion.

Faithfully Yours

Procurement Officer
Underground Coal Gasification
project Thar
C/O Manager, National Bank of
Pakistan, Islamkot Branch,
Islamkot
Tharparkar Sindh.
Ph: # 0232-923008
Cell # 0345-2102922, 0344-4655000
Email: poucgtar@gmail.com

TECHNICAL PARAMETERS

1. Technical Specifications.

a) The Group- A "Supply of Transformers, Low Voltage/ Medium Voltage Switch Gears and Overhead Transmission Lines with Poles & Accessories" and Group-B "Supply of Low Voltage & Medium Voltage Underground Cables" should conform to specification/service requirements and technical data. Offer not conforming to required specifications will be rejected. The supplier shall further undertake to provide all the contracted stores/goods as per the specifications.

b) Group- A "Supply of Transformers, Low Voltage/ Medium Voltage Switch Gears and Overhead Transmission Lines with Poles & Accessories" and Group-B "Supply of Low Voltage & Medium Voltage Underground Cables" delivered would be brand new, from current production, conforming to purchaser specifications. Quality certification/inspection documents will be provided to the purchaser confirming the quality of the product being supplied under this contract.

2. Inspection/Testing of Store. Inspection/testing will be carried out by the concerned inspecting team/inspector as detailed by the purchaser in accordance with the laid down acceptance criteria, and whatever the expenditure regarding TA/DA boarding and lodging of officers will be borne by the supplier.

3. Change in Specification/Manufacturer/Model. No alteration in make/brand and quality of stores will be entertained after the tenders have been opened. Any change/improvement will require approval of technical authority designated by the buyer.

4. Technical Documentation. All publication, catalogues and technical/operational manuals will be supplied free of cost by the supplier at the request of purchaser unless otherwise stated in the contract. The Supplier will provide a set of following documents free of cost for technical scrutiny of the offer (as applicable): -

- a) Technical literature of each item with brochure.
- b) Manufacturer's Specifications/Technical Data/Process Drawings of each item.
- c) Acceptance test procedure/criteria of each item.
- d) Country of origin of each item and port of shipment.

SCHEDULE TO TENDER

1. I/T No. UCG - 114-11-15
2. Time and Date of Technical Opening at 1600 hrs on 07-12-2015
3. Time and Date of Financial Opening at 1600 hrs on 09-12-2015

Schedule To Tender					
Power Transformers					
S.No	Description	Unit	QTY	Unit Price (Rs.)	Total Price (Rs.)
1	Supply of 4 MVA, Power Transformer, Oil Immersed, 3-Phase, 400 V/ 11KV, including Termination connection box (TCB) complete in all respect make of Siemens, PEL or any approved by WAPDA	No	2		
2	Supply of 4 MVA, Power Transformer, Oil Immersed, 3-Phase, 11KV/400V Termination connection box (TCB) complete in all respect make of Siemens, PEL or any approved by WAPDA	No	2		
3	Supervision of Testing/Commissioning of items mentioned at SR. No 1 & 2 in Power Transformers and Complete in all respect, Single Line Diagram attached at Appendix "F".	Job	1		
LV & MV Switchgear					
S.No	Description	Unit	QTY	Unit Price (Rs.)	Total Price (Rs.)
1	Supply of L.V Distribution Board/Panels, Floor Standing, Front access type, made of M.S sheet and by using all sort of circuit Breakers from Siemens, ABB, Schneider , GE complete in all respects and generally comprising of: 6300 A, Triple Pole, withdrawable Air Circuit Breaker, Adjustable, 65 KA, with motorized operating mechanism, Opening/Closing releases, under voltage trip [time delayed] auxiliary contacts and voltage sensing relay, Phase failure relay with NO + NC Contacts, On/Off Push Buttons, Auto Manual Selector switch, Voltmeter +VSS, Ammeter +ASS, Indication lamps complete with microprocessor based Electronic control unit for inverse time overload release, Short time delay short circuit release, Instantaneous short circuit release, Earth fault release Note: Suitable arrangement for Installation of 6 x 630 sq mm Cable from incoming and outgoing.	No	2		
2	Supply of L.V Distribution Board/Panels, Floor Standing, Front access type, made of M.S sheet and by using all sort of circuit Breakers from Siemens, ABB, Schneider , GE complete in all respects and generally comprising of				

	a) Sheet Steel Floor Mounted Cubical Structure.			
	b) 3 Phase Copper Bus Bars			
	c) Half Sized Neutral Bus Bar			
	d) Earthing Bus Bar			
	INCOMING			
	6300 A, Triple Pole, withdrawable Air Circuit Breaker, Adjustable, 65 KA, with motorized operating mechanism, Opening/Closing releases, under voltage trip [time delayed] auxiliary contacts and voltage sensing relay, Phase failure relay with NO + NC Contacts, On/Off Push Buttons, Auto Manual Selector switch, Voltmeter +VSS, Ammeter +ASS, Indication lamps complete with microprocessor based Electronic control unit for inverse time overload release, Short time delay short circuit release, Instantaneous short circuit release, Earth fault release Note: Suitable arrangement for Installation of 6 x 630 sq mm Cable from incoming.	Nos	2	
	OUTGOING:			
	2500 A, Triple Pole, withdrawable Air Circuit Breaker, Adjustable, 65 KA, with motorized operating mechanism, Opening/Closing releases, under voltage trip [time delayed] auxiliary contacts and voltage sensing relay, Phase failure relay with NO + NC Contacts, On/Off Push Buttons, Auto Manual Selector switch, Voltmeter +VSS, Ammeter +ASS, Indication lamps complete with microprocessor based Electronic control unit for inverse time overload release, Short time delay short circuit release, Instantaneous short circuit release, Earth fault release. Note: Suitable arrangement for Installation of 5 x 300 sq mm Cable from outgoing.	No	5	
	1 x 1250 Amps. TP MCCB having Adjustable Thermal Trip, 65 KA	No	2	
3	Supply of M.V Distribution Board/Panels, Floor Standing, Front access type, made of M.S sheet and generally comprising of: a) Triple Pole, Withdrawable, VCB Vacuum Circuit Breaker (VCB). b) Rated Voltage 12KV,50 HZ, rated impulse Voltage level 75KV BIL. c) Rated Current 800 Amp with having rated making capacity 63 KA and rated breaking capacity 25KA/3Sec. d) Motor Drive 230 VAC, closing coil and shunt coil. e) Test Position limit switch and service position limit switch. f) Current Transformer and and Potential Transformerr. g) Analog Voltmeter and Ammeter with Selector switch	No	4	

	h) 3 Phase O/C, S/C & E/F Relay MICOM P-122 or equivalent j) Main Busbar and Droppers with sleeve, Cable entry suitable for both I/C & O/G Cables, paint Thickness 100 Micron.				
4	Supervision of Testing /Commissioning of items Sr: No 1,2 and 3 in LV and MV switch Gears. Complete in all respect, Single Line Diagram attached at Appendix "F".	Job	1		

ACSR Conductor, along with 11 KV T.L Poles and its accessories.

S.No	Description	Unit	QTY	Unit Price (Rs.)	Total Price (Rs.)
Supply of Following Conductors, Poles, insulators, and as per list given below as approved by Engineer Incharge:					
1	Single Pole Steel Structure 45ft	Nos	24		
2	CONDUCTOR ACSR OSPREY as per WAPDA standard, make of Pakistan Cables, Newage, Fast Cables, Pioneer Cables.	KM	6		
3	CONNECTOR P.G.TYPE S-117	NO	100		
4	CONNECTOR P.G.TYPE T-110	NO	100		
5	CONNECTOR P.G.TYPE T-150	NO	100		
6	12KV INSULATOR PORCELAIN FOG TYPE POLLUTED	NO	72		
7	INSULATOR PORCELAIN 11KV DISC TYPE	NO	30		
8	BRACE (SB-11) STEP TYPE FOR 11KV CROSS ARM	NO	56		
9	DANGER PLATE WITH FITTINGS 11KV	NO	20		
10	BOLT AND NUT 5/8" X 1 1/2"	NO	100		
11	BOLT & NUT GALVANISED STEEL 5/8" X 2"	NO	100		
12	BOLT & NUT GALVANISED STEEL (5/8" X 6")	NO	100		
13	BOLT & HEX STEEL NUT 5/8" X 2" FULL THREAD	NO	50		
14	BOLT & HEX STEEL NUT 5/8" X 9" -2 1/4" THREAD	NO	50		
15	BOLT & HEX STEEL NUT 5/8" X 10" -2 1/4" THREAD	NO	50		
16	BOLT & HEX STEEL NUT 5/8" X 12" -2 1/4" THREAD	NO	50		
17	BOLT & HEX STEEL NUT 1/2" X 6" -2" THREAD	NO	50		
18	BOLT & HEX STEEL NUT(3/8" X 6") - FULL THREAD	NO	60		
19	BOLT & M.S NUT 2" X 1/2"	NO	50		
20	WASHER ROUND 1.25"DIA, BOLT SIZE 0.5"	NO	200		
21	WASHER ROUND 1.75"DIA, BOLT SIZE 0.625"	NO	200		
22	WASHER ROUND 1" X 7/16"	NO	60		
23	WASHER SQUARE 2.25" X 11/16" (2.25X693X188")	NO	100		
24	WASHER SQUARE 2" X 2" X 125"	NO	60		
25	EYE NUT (5/8")	NO	30		
26	BOLT DOUBLE ARMING 305 X 16MM DA-12	NO	50		
27	BOLT DOUBLE ARMING 510 X 16MM DA-20 (5/8" x 20 ")	NO	50		
28	ASSEMBLY D-SHACKLE	NO	50		

29	ANCHOR SHACKLE	NO	50		
30	STAY ROD WITH ELBOW AND THIMBLE	NO	50		
31	CLAMP DEAD - END	NO	30		
32	KIT INDOOR TERMINATION (3cx185sqmm)	NO	6		
33	KIT OUTDOOR TERMINATION (3cx185sqmm)	NO	6		
34	DEAD END CLAMP FOR OSPRAY CONDUCTOR	NO	30		
35	CONNECTOR SMALL T-220	NO	50		
36	SLEEVE REPAIR	NO	50		
37	SLEEVE MID SPAN	NO	50		
38	Lugs Copper 185 mm ²	NO	100		
39	Lugs Copper 300 mm ²	NO	250		
40	Lugs Copper 630 mm ²	NO	400		
41	OUT-DOOR TERMINATION kit used on osprey conductor and 3cx185sqmm cu cable.	NO	6		
42	Supervision of Testing / Commissioning of following items which generally comprising of a) ASCR Conductor along with 11 KV Poles b) Installation of termination kits for 11 KV Cables/ Overhead lines on Transformer/ OHL and switch gear end as well. c) Installation guide for Overhead lines with 11 KV Poles. d) Single Line Diagram attached at Appendix "F".	Job	1		

Total Cost on FOR Basis in Pak Rupees _____

Special Instructions

- a) Date by which store can be delivered by the firm is to be specified.
- b) Quotation will be submitted on FOR Basis including unloading at UCG Site Islamkot.
- c) Price will be mentioned separately both in figures and words.
- d) Items to be supplied must be new with material certificate.
- e) Supply should be strictly as per approved sample.

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SCHEDULE TO TENDER

1. I/T No. **UCG - 114-11-15**
2. Time and Date of Technical Opening at **1600 hrs on 07-12-2015**
3. Time and Date of Financial Opening at **1600 hrs on 09-12-2015**

S.No	Description	Unit	QTY	Unit Price (Rs.)	Total Price (Rs.)
Supply of Following Cables					
1	Providing of 3cx185 mm ² , Three Core, XLPE Insulated and over sheathed 11 KV Grade Copper conductor cable make of Newage, Pakistan Cables, Fast Cables and Pioneer Cables.	Meter	240		
2	Providing of 300 mm ² , Single Core PVC Insulated PVC sheathed 600/1000 V Grade copper conductor cable manufactured by M/s. Pakistan cables, Newage Cables, Fast Cables and Pioneer Cables.	Meter	4000		
3	Providing of 630 mm ² , Single Core PVC Insulated PVC sheathed 600/1000 V Grade copper conductor cable manufactured by M/s. Pakistan cables, Newage Cables, Fast Cables and Pioneer Cables.	Meter	5000		

Total Cost on FOR Basis in Pak Rupees _____

Special Instructions

- Date by which store can be delivered by the firm is to be specified.
- Quotation will be submitted on FOR Basis UCG Site Islamkot.
- Price will be mentioned separately both in figures and words.
- Items to be supplied must be new with material certificate.
- Supply should be strictly as per approved sample.

OIL-IMMERSED MV/LV DISTRIBUTION TRANSFORMER

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section cover the manufacturer, furnish and test all equipment, accessories and materials required for the installation of oil-immersed distribution transformer in accordance with specifications and drawings. Any material or equipment necessary for the proper operation not specified or described herein shall be deemed part of the specifications.

1.2 APPLICABLE CODES AND STANDARDS

- A. The work shall be carried out in accordance with this specification, the contract drawings and the standards listed hereunder.
The following codes and standards provide an acceptable level of quality for materials and products:

1. IEC 60076-1 Power transformers
to 60076-5
2. IEC 60354 Loading guide for oil-immersed type power transformers,
50 HZ, 4000 KVA

1.3 QUALITY ASSURANCE

- A. All materials and products shall be new, sound and uniform in quality, size, shape, color and texture and shall be free from defects.
- B. The contractor shall be responsible for ensuring that the required standards of quality control as mentioned in relative sections are maintained for the proposed transformer.
- C. If requested by the client, the supplier shall provide proof of application of a quality procedure complying with standards. This means:
1. use of a quality manual approved and signed by a management representative,
 2. regular updating of this manual so that it reflects the most recent applicable quality control procedures.
- D. The manufacturer must have a sound experience in the field of transformers for not less than ten years, and should have a presentable reference list of the already supplied equipment of the same type and same make and that this equipment has been in satisfactory operation in Pakistan for at least three years.

1.4 SUBMITTAL

- A. Shop Drawings and Manufacturer's Data:
The contractor shall submit to the client/client representative for review, detailed dimensioned shop drawings and manufacturer's literature. Shop drawings and/or data sheets shall be based on information stated in the specifications.

Manufacturer's data sheets shall be submitted indicating the necessary installation dimensions, weights, materials and performance information. The above information may be provided by standard catalogue sheets marked to indicate the specific items provided.

- B. **Operation and Maintenance Instructions:**
The contractor shall furnish data covering model, type and serial numbers, capacities, maintenance and operation of each major item of equipment or apparatus in accordance with the requirements of the contract documents. Operating instructions shall cover all phases of control.
- C. **Test Reports:**
The contractor shall submit test reports to the client/client representative for review.
- D. **Recommended Spare Parts List:**
The contractor shall submit recommended spare parts list to the client/client representative for review.
- E. **As Built Drawings:**
The contractor shall submit the as built drawings to the client/client representative for review and approval.

1.5 COORDINATION

- A. The contractor shall be held responsible for the proper coordination of all phases of the work under this contract.
- B. It shall be the responsibility of the contractor to coordinate the work and equipment as specified herein with work to be performed and equipment to be furnished under other sections of the specifications in order to assure a complete and satisfactory installation.

1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver, store, protect and handle products to site as per manufacturer's instructions.
- B. Store transformers in clean and dry space. Inspect for damage. Maintain factory wrapping or provide an additional heavy canvas or heavy plastic cover to protect units from dirt, water, construction debris and traffic.
- C. Lift only with lugs provided for the purpose. Handle carefully to avoid damage to transformers internal components, enclosure and finish.

PART 2 - PRODUCTION

2.1 GENERAL

- A. The following specifications apply to three-phase oil-immersed transformers, hermetically sealed with integral filling, insulation system with oil natural air natural (ONAN) cooling for indoor or outdoor installation destined for use in three-phase MV/LV distribution systems.

2.2 GENERAL REQUIREMENTS

A. Magnetic Core

1. This shall be made from laminations of grain oriented silicon steel, insulated with mineral oxide; the method of cutting and stacking shall be "step lap", so as to optimise the level of no-load losses.

B. LV Windings

1. These shall be made from copper profile wire or aluminium or copper foil (according to the manufacturer's preference).

C. MV Windings

1. These shall be made of copper profile wire or aluminium or copper round wire (according to the manufacturer's preference).

D. MV Connections

1. The standard MV connections shall use porcelain bushings on the top of the transformer.
2. Fixed MV plug-in bushings, with MV mobile plug-in bushings - straight or elbow according to the orientation of the incoming cables - may be provided if specified in the other documents.

E. LV Connections

1. The LV connections shall be made using porcelain bushings up to 4000 KVA.
2. Complete air-insulated terminal cover may be provided if specified in the documents.

F. MV Tapping

1. The tapping which act on the highest voltage adapting the transformer to the real supply voltage value, shall be provided with an off-circuit tap-changer switch with a padlocking facility on the top cover of the transformer.

2.3 MAIN CHARACTERISTIC OF CONSTRUCTION

A. Tank

1. The tank of the transformer shall be made with flexible cooling corrugations, in order to absorb the expansion of the dielectric due to temperature variations.
2. The cover shall be bolted on top of the tank.
3. The tank shall be built in such a way as to avoid any water accumulation.

B. Dielectric and Component Material

1. The components of the transformer such as insulation material, varnish, painting, etc. have to be new and PCB-free.

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2. The filling of the transformer shall be made under vacuum, in order to guarantee the maximum preservation of dielectric properties.
3. The live part of the transformer shall be previously oven dried so as to remove all residual humidity.

C. Gaskets

1. All the gaskets shall be resistant against the action of the mineral oil, at the working temperature.

D. Protection Against Corrosion

1. The anticorrosion treatment of the tank and the cover shall comprise:
 - An external degreasing and rinsing
 - A hot phosphating operation
 - A powdering through application of a polyester resin with an electrostatic spray gun.

2.4 ACCESSORIES AND STANDARD EQUIPMENT

A. The transformers shall be equipped with:

1. Silica Gel Breather
2. Double float buchholz Relay
3. Pressure relief device with contacts
4. Magnetic oil level indicator with contacts
5. Oil temperature indicator with contacts
6. Terminal cover box (Gland on HV and LV Cable on LT Side). with dimensions as per drawing.
7. 4 bi-directional flat rollers
8. 2 lifting and untanking lugs
9. 2 earthing terminals
10. 1 filling plug
11. 1 draining device
12. 1 rating plate
13. 1 "Danger Electricity" warning label
14. 1 routine tests certificate
15. 1 instruction manual for installation, commissioning and maintenance in English.

B. Protection

1. The transformers shall be equipped with a DGPT2 protection relay including:
 - 1 gas detector/flow level indicator with one contact (for gas discharge and drop in liquid level)
 - 1 over pressure contact (for internal pressure increase)
 - 2 thermostats for alarm and tripping (for internal temperature increase)
 - 1 dial type thermometer without contact.

2.5 ROUTINE AND TYPE TESTS

A. Routine Tests

The following tests shall be carried out on all the transformers after the manufacturing, enabling an official test certificate to be produced in presence of Client at Factory for each one:

1. Measurement of windings resistance.
2. Measurement of the transformation ratio and vector group
3. Measurement of impedance voltage and load loss
4. Measurement of no load loss and no load current
5. Applied voltage dielectric test
6. Induced voltage dielectric test
7. All type of FATs (Factory assessment tests) will be done at manufacturer facility.
8. All type of SATs (Site assessment tests) will be done at Site.

All the tests shall be carried out as per IEC / Equivalent standards

B. Type Tests and Special Tests

The following tests may be requested (if mentioned in the documents):

1. Temperature rise test.
2. Lightning impulse test.
3. Short circuit test.
4. Noise level measurements.
5. Measurement of partial discharges.

All the tests shall be carried out as per IEC / Equivalent standards

- C. The manufacturer shall produce a test report from an official laboratory on a transformer of the same design as those produced.

TECHNICAL SPECIFICATIONS

LV/MV Distribution Boards / Panels

The nominal characteristics of the LV Distribution Boards / Panels are:

- Voltage: 400/11 Kv Volts AC
 - Frequency: 50 Hz
 - No. of Phases: Three + Neutral + Earth
1. The Enclosure of the Switchgear and its Stand shall be Powder Coated.
 2. Size of the Cu Bus bar should be of suitable size and shall be Tin Plated. Holes in earth and Neutral terminals should be sufficient to accommodate all incoming and outgoing circuits.
 3. The panels shall also provide protection for equipment against:
 - Dust
 - Water
 - Insects or rodents.
 4. The Switchgear shall form a lineup of freestanding metal enclosure suitable for outdoor service. Enclosure shall have adequate strength to withstand all stresses imposed by shipping/handling, installation and operation without distortion or damage.
 5. Hinged doors / Rack in- rack out trolley for MV Switchgear of framed steel construction, with locks, shall provide access to circuit breaker compartments. The supplier shall also provide a set of duplicate keys for each panel
 6. Enclosures shall be constructed of smooth finished sheet metal/ with sufficient structural requirement to ensure a plane surface, to limit vibration to provide rigidity.
 7. Design, material selection and workmanship shall be such as to result in a neat appearance outside and inside, with no weld, rivets or bolt head apparent from outside and with all exterior surfaces clean and smooth.
 8. The arrangement of equipment shall in no case prevent satisfactory performance/and shall allow sufficient space for proper maintenance within the structure.
 9. The panel front/top and sides shall be made from minimum 14SWG thick hot rolled steel plate. Panel frame shall be fabricated from minimum 14SWG thick steel sheet.
 10. Each completed enclosures shall have provision for lifting and handling.
 11. The Circuit Breakers will be as specified in Bill of Quantities.
 12. The Circuit Breakers provided shall be along with technical brochures and manuals.
 13. ACB stands for Air Circuit Breaker.
 14. VCB Stands for Vacuum circuit breaker.
 15. MCCB Stands for Molded Case Circuit Breaker.
 16. MCB stands for Miniature Circuit Breaker.

TECHNICAL SPECIFICATIONS

11KV Poles, Conductor, Insulators etc.

1. **Pole:** Construction drawing and Material specification must be submitted with Technical offer and must be as per laid down specification and standards of WAPDA.
2. **Conductor:** Aluminum Core Steel Reinforced OSPREY Conductor, detailed catalogue showing all electrical and mechanical data must be submitted with technical offer.
Standards of testing must be as per WAPDA.
3. **Insulators:** Fog Type and Disc Type for 11 kV suitable for Osprey conductor and testing as per WAPDA Standards.

Technical Specifications

(a) General

- A. The Low Voltage cables shall be of copper conductor suitable for voltage grade of 600 / 1000 Volts, PVC Insulated PVC Sheathed.
- B. The Cable shall conform to prevalent BSS / IEC regulations.
- C. The Cable shall be suitable for continuous service.
- D. The bidder shall provide the following information with the offer :
 - i. The technical literature describing technical specification, cable construction detail.
 - ii. Testing standards being followed and testing certificates and reports for reference.
 - iii. The supplier shall clearly specify:
 - a. Warranty / Guarantee period.
 - b. Delivery period.
 - c. After sale service.

(b) Materials

a. Conductor

Conductor shall be of high conductivity electrolytic copper (purity $\geq 99.95\%$) in plain annealed stranded form with dimensions and resistances in accordance with latest BSS / IEC regulations.

b. Insulation

The core shall have PVC Insulation which shall be applied by extrusion process complying with the requirements of latest BSS / IEC regulations.

c. Oversheath

The cable shall have extruded black PVC Oversheath in compliance with latest BSS / IEC regulations.

(c) Core Identification

The core shall have the colour identification as follows:

1.	Single Core	Black
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(d) Cable Marking

The cable shall have the identification as follows:

1.	Voltage rating	600/1000-V
2.	Cable Type	CU/PVC/PVC
3.	Size	630 SQMM
4.	Name of Manufacturer	
5.	Year of manufacture:	
6.	Meter length on each meter	Yes- Mentioned on Cable

(e) Inspection and Factory Tests

Physical, Non-Electrical and electrical acceptance tests in accordance with applicable standard shall be carried out at the manufacturer works and witnessed by the representative of the Client. Three copies of test reports will be furnished to the Engineer, which shall include brief description of tests, test records and results. The following Tests shall be carried out in presence of representative of the purchaser:

a. Resistance Test

A resistance test shall be performed on conductor of cable length. The procedure to be followed in carrying out the resistance test shall be in accordance with latest BSS / IEC regulations.

b. Impulse Withstand Test

This test shall be performed on the sample at a conductor temperature 5°C above the maximum rated operating temperature of the insulation.

c. Voltage Test

i. For single core cable shall be immersed in water at room temperature for 1 hour and the test voltage then applied for 5 minute between the conductor and the water.

d. Conductor Examination

Conductor examination shall be made on one length from each manufacturing series of the same type and nominal cross-section of cable.

e. Insulation and Sheath Thickness

f. Insulation resistance measurement

g. Voltage Test on Completed Cable

Preparation for Shipment

- i. The cable shall be individually rolled on drums and packed with purchaser's identification code.
- ii. It shall be ensured by the supplier that the packing material shall prevent the cables from dust or any other environmental hazards.

Technical Specifications

(a) General

- A. The MV cables shall be of copper conductor suitable for voltage grade of 11 KV, XLPE Insulated and over sheathed.
- B. The Cable shall conform to prevalent BSS / IEC regulations.
- C. The Cable shall be suitable for continuous service.
- D. The bidder shall provide the following information with the offer :
 - iv. The technical literature describing technical specification, cable construction detail.
 - v. Testing standards being followed and testing certificates and reports for reference.
 - vi. The supplier shall clearly specify:
 - d. Warranty / Guarantee period.
 - e. Delivery period.
 - f. After sale service.

(b) Materials

a. Conductor

Conductor shall be of high conductivity electrolytic copper (purity $\geq 99.95\%$) in plain annealed stranded form with dimensions and resistances in accordance with latest BSS / IEC regulations.

- b. Semi conductive conductor screen
- c. XLPE Insulation
- d. Semi Conductive insulation Screen
- e. Copper tape screen
- f. Fillers
- g. Tape binder
- h. Outer Sheath

(c) Core Identification

The core shall have the colour identification as follows:

1	Three Core	Red, Yellow, Blue
---	------------	-------------------

(d) Cable Marking

The cable shall have the identification as follows:

1	Voltage rating	11-KV
2	Cable Type	CU/XLPE Insulated/Over Sheathed
3	Size	185 SQMM
4	Name of Manufacturer	
5	Year of manufacture:	
6	Meter length on each meter	Yes- Mentioned on Cable

(f) Inspection and Factory Tests

Physical, Non-Electrical and electrical acceptance tests in accordance with applicable standard shall be carried out at the manufacturer works and witnessed by the representative of the Client. Three copies of test reports will be furnished to the Engineer, which shall include brief description of tests, test records and results. Standard Tests shall be carried out in presence of representative of the purchaser:

Preparation for Shipment

- iii. The cable shall be individually rolled on drums and packed with purchaser's identification code.
- iv. It shall be ensured by the supplier that the packing material shall prevent the cables from dust or any other environmental hazards.

CHECK LIST FOR TECHNICAL OFFERS

1. Tender Number : UCG –
2. Date of Opening:
3. Subject: Low Voltage Cables.
4. Name of Manufacturer [Tick the Name]

a)	Pakistan Cables	
b)	Newage Cables	
c)	Fast Cables	
d)	Pioneer Cables	

5. Technical Catalogue of Manufacturers [Please Tick]

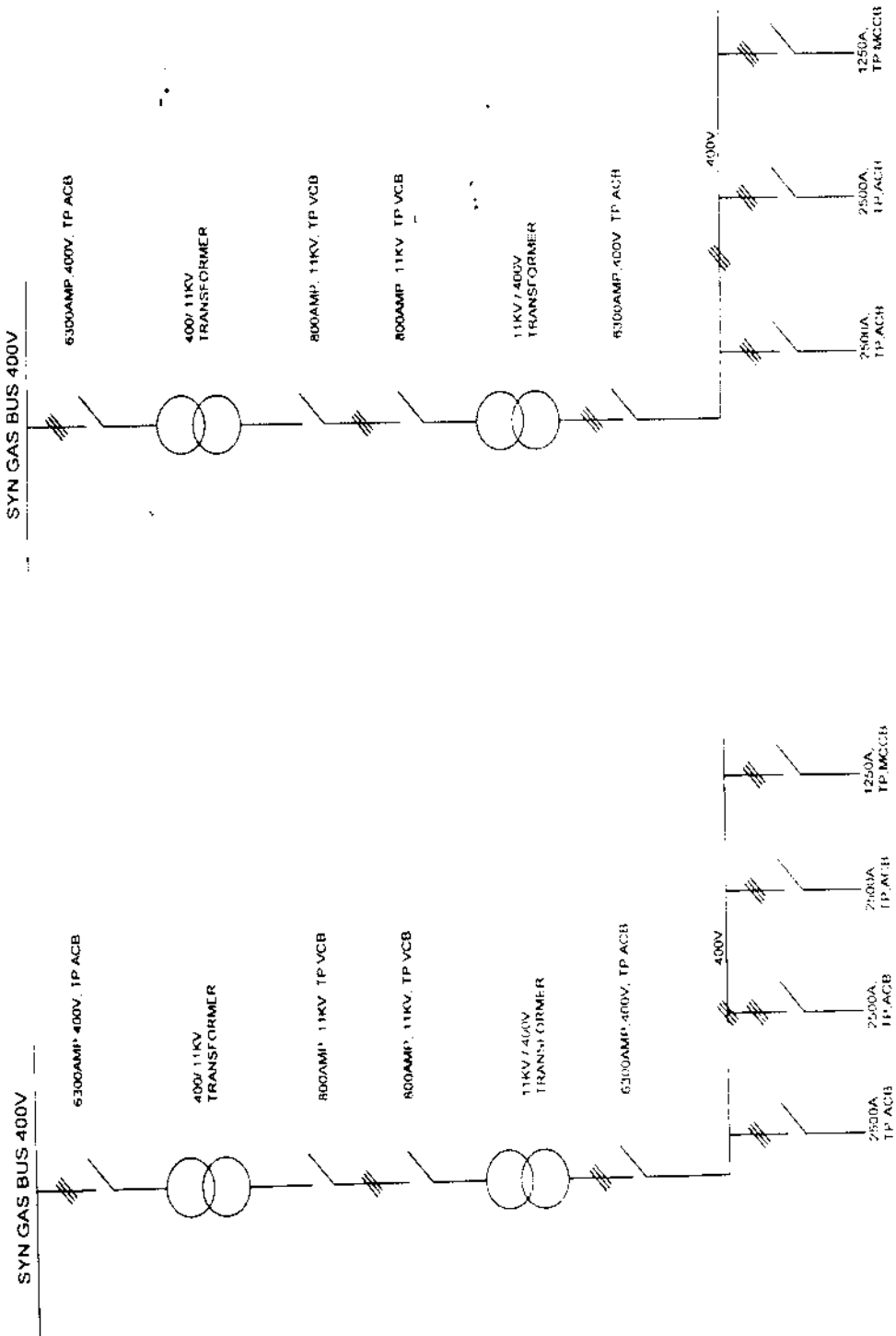
a)	Pakistan Cables	
b)	Newage Cables	
c)	Fast Cables	
d)	Pioneer Cables	

6. Earnest Money with Financial Offer..... Attached/ Not Attached

Signature and Seal of the Bidder

Note: In any case this sheet, duly filled in and supported with the Technical Catalogues / Broachers asked for is not attached with the Technical Offer , the OFFER shall stand rejected.

"Appendix - F"



H

PART 1 - GENERAL TENDERING INSTRUCTIONS

- 1.1 The quotation shall be **strictly in accordance** with Underground Coal Gasification Project Thar's Tender Document.
- 1.2 Only those quotations will be considered where the bidder is either manufacturer of reputed brand or a sole agent of the reputed manufacturer. List of client with address should be supplied with the technical bids. Incomplete quotation will be rejected
- 1.3 Actual order quantity of items / categories can be decreased or increased.
- 1.4 The quoted prices should be in **Pak Rupees**; otherwise your bid will automatically be rejected. Bidders have to quote their prices based on Underground Coal Gasification Project Thar's Tender Document conditions.
- 1.5 Bidders when submitting their Bid should stamp by their official stamp all the pages of the received Tender Document.
- 1.6 Bidders have the right to **request for clarification** provided that any request is received at least five working days prior to the date of opening of bid.
- 1.7 Answers to questions seeking for clarification of technical matters will be sent to all Bidders without identifying the source of the query.
- 1.8 At any time prior to the deadline for the submission of Bids, Project may, for any reason, whether at its own initiative or in response to a clarification requested by a Bidder, modify the Bidding Documents by amendment.
- 1.9 The amendment will be forwarded in writing to all Bidders and will be binding on them. In order to grant Bidders sufficient time to take the amendment into account, PROJECT may, at its discretion, extend the deadline for the submission of Bids.
- 1.10 Bid closing date is as mentioned in schedule A / tender notice. Bids received after bid-closing date will be automatically rejected. Bids once submitted will have to stand valid during the validity period as stated in Article 1.14 of this General Tendering Instructions, Bidders are not allowed to modify or add anything to or to withdraw their Bid after Closing Date.
- 1.11 Bidder should indicate his **full acceptance of:**
 - Underground Coal Gasification Project Thar 's General Purchasing Terms
 - Standard Conditions of the Contract
 - Special Conditions of the Contract

Tender documents to be delivered to:

The tender duly sealed will be addressed to: -

Procurement Officer

Underground Coal Gasification project Thar

C/O Manager, National Bank of Pakistan, Islamkot Branch, Islamkot

Tharparkar Sindh. Ph: # 0232-923008 Cell # 0345-2102922, 0344-4655000

Email: poucgtar@gmail.com

1.12 Date and Time For Receipt of Tender:

Your tender must reach this office one hours before the date and time specified in the "Schedule A / Tender Notice" at **Underground Coal Gasification project Thar, C/O Manager, National Bank of Pakistan, Islamkot Branch, Islamkot, Tharparkar Sindh. Ph: # 0232-923008 Cell #0345-2102922, 0344-4655000 Email: poucgtar@gmail.com**

This Project will not accept any excuse of delay occurring in post. Tender received after the fixed date/ time will NOT be entertained.

Alternately tender can be brought to the tender opening venue at Site of UCG Thar Project Block "V" Bhamnio Bheel Islam Kot Dist: Mithi Sindh Pakistan, one hour before opening time.

1.13 The bid package must consist of two sealed envelopes:

First envelope marked: "UCG 114 - 11- 15" -TECHNICAL OFFER" should contain:

- A copy of the first page of the received Tender Document
- Statement of acceptance of all tender terms of Underground coal gasification project Thar.
- The technical documentation and technical specifications with references, statements, literature, drawings, as appropriate. An un-priced financial offer shall be made part of the technical offer.
- A CD containing the contents of the **Technical Offer envelope** in electronic form.

Second envelope marked: "UCG: 114 - 11 - 15" - FINANCIAL OFFER" should contain:

- A financial offer
- 2% of total cost of the bid as earnest money in shape of Bank Draft / Pay Order / Bank Guarantee in favour of MD UCG Thar
- A price sheet as per Schedule "A" of Contract.
- Additional price information, if any, to be submitted on separate sheet.
Itemized prices shall be quoted by bidder
- A CD containing the contents of the **Financial Offer envelope** in electronic form.

Note that: **No prices** to be shown in first envelope

- Second envelope should contain **prices only**, with no reservations
- Failing to submit two envelopes or omitting any of the requested information will lead automatically to the **rejection of the bid**.
- Envelopes shall be opened in the same sequence as request.
- The evaluation of any company shall not be continued in case they fail to meet the criteria of the envelope requirements.

1.14 **One offer** only will be accepted from each bidder.

1.15 The quotation must be **valid** for at least 90 days after bid closing.

1.16 In case bidder **does not want to participate**, he is advised to inform: Underground Coal Gasification Project Thar by return mail referring to relevant Tender #

Letter should be addressed To:

Procurement Officer
Underground Coal Gasification project Thar
C/O Manager, National Bank of Pakistan, Islamkot Branch, Islamkot
Tharparkar Sindh, Ph: # 0232-923008 Cell # 0345-2102922, 0344-4655000
Email: poucgtar@gmail.com

1.17 In case Bidder is **interested to participate** in the referred Tender, it should send back by email -the attached Acknowledgement Letter to the Project within a fortnight from the receipt of the Tender Document.

1.18 Each envelope should be **clearly marked** with the bidder's company name.

1.19 In the first envelope the **mailing address and telex and/or fax number** of the bidder should be clearly seen.

1.20 Services offered must be clearly stated and availability of each service must be mentioned keeping in view our schedule stated under Introduction above. This information should be clearly stated and documented in the Technical Offer envelope.

1.21 Bidder must submit earnest money in second envelope. This **earnest money (in the shape of bank guarantee/ Bank draft / pay order)** must be equal to 2% of total value of work.

1.22 The earnest money **shall be returned** to its owner if his bid is rejected or the bidder has not awarded the Contract. The earnest money must be valid for 90 days after receiving of bid.

PART 2 - ADDITIONAL TENDERING INSTRUCTIONS

2.1 The equipment specifications contained in Schedule represent the **minimum requirement** which UCG Project Thar considers necessary to accomplish concerned job.

2.2 All items listed in Schedule and later on should be addressed in the **same order and detail** as specified.

2.3 If additional information or details are needed, please contact:

Mr. Abdul Manan Larik
Electrical Engineer
Underground Coal Gasification
Project Thar
Ph: # 092-232-923008
Cell # 03413584481
ucgthar@gmail.com

Note: Every request should have a "subject" line that clearly indicates the tender reference number.

PART 3 - GENERAL PURCHASING TERMS

- 3.1 **Payment Terms:** As per agreement with the successful bidder
- 3.2 **Delay Penalty:** As per clause 15 of the contract.
- 3.3 PROJECT reserves the right to accept other than the lowest Bid, to **split the Contract between multiple CONTRACTORS** and to accept or reject any Bid in whole or in part, or to reject all Bids **subject to relevant provisions of SPP Rules, 2010** and if no Bids are accepted, to abandon the work or to have the work performed in such manner as the Issuer may elect, in this later case all Bids received will be sent back as received to the Bidders.
- 3.4 PROJECT shall not be liable for any costs and/or expenses incurred by the Bidder in the preparation and delivery of the Tender.
- 3.5 The Tender, any supporting documentation and the Contract shall be in the English language.
- 3.6 **Pricing:** PROJECT shall make no advance payment to the successful Bidder.
- 3.7 Delivery period must not be more than 03 months from the date of placement of firm order.
- 3.9 In case of a conflict in two clauses, the contents of General Tendering instructions will be final.



UNDERGROUND COAL GASIFICATION PROJECT THAR



CONTRACT AGREEMENT

PROCUREMENT DIVISION

CONTRACT No. "UCG / _____ Dated _____, 2015

An agreement made on the ___ day of February Two Thousand and Fifteen. Between the UCG (hereinafter called the 'PURCHASER') of the one part and M/S _____ herein after called the "SUPPLIER" of the other part.

Whereby it is agreed that the Purchaser shall purchase and the Supplier shall sell the equipment described in the schedule at the price mentioned therein subject to the special conditions covered in the contract and the international law.

WARNING

Any information about the sale/purchase of the stores under this contract shall not be communicated to any person, other than the manufacturer of the stores or to any press or agency not authorized by the Procurement Officer UCG to receive it. The breach of the undertaking shall be punishable under the Official Secrets Act, 1923.

1. **Name of Project:** UNDERGROUND COAL GASIFICATION THARPROJECT

2. **Description of Equipment:** As per Schedule attached at Schedule "A & B"

3. **Consignee:** UCG ISLAMKOT

4. **Details of Item:** Group- A "Supply of Transformers, Low Voltage/ Medium Voltage Switch Gears and Overhead Transmission Lines with Poles & Accessories" and Group-B "Supply of Low Voltage & Medium Voltage Underground Cables"

Technical Specifications: Complete technical specifications of the items are at Appendices "A" "B" "C" "D" "E" "F".

5. **Total FOR Value:**

5.1 **PAK Rupees:** Rs. _____ (PKR _____)

6. **Terms of Payment:**

6.1 All payments will be released after delivery / inspection of consignment.

6.2 10% payment will be retained as performance guarantee at least ninety days beyond completion of Supply & works or final accepting of this office para 39/N of SPPRA rules 2010

7. **Time of Delivery:** _____

8. **Principal/ Manufacturer:** _____

9. **Sole Distributors/ Agent:** M/s. _____

10. **Country of Origin:** _____

11. **Imposition of Liquidated Damages:** The supplier is liable to pay the stipulated liquidated damages for the period of delay @ 2% per month but not less than 1% of the value of the un-supplied quantity of the stores. This will be levied for the period exceeding to the original delivery period subject to provision that the total liquidated damages thus levied will not exceed 10% of the contract value.

12. **Force Majeure:** The supplier does not undertake any responsibilities of delivery of stores according to delivery schedule in case of labour unrest, civil commotion, strike, riots, war act of God at the supplier/ manufacturer end. This shall not include non-availability of raw material for the manufacture of stores or of export permit for the export of the contracted stores from the country of its origin.

13. **Packing/ Marking Instructions:**

13.1 As per packing worthy of international standards so as to ensure that the consignment is free from loss or damage on arrival at the ultimate destination.

Any loss occurred paid due to wrong marking, shall be made good by the supplier and all the expenses incurred by UCG as a result of wrong packing shall be recovered from the supplier.

- 13.2** In case of damage of stores due to improper packing, the supplier will be responsible for replacement of the equipment/stores, free of charge.
- 13.3** Packages will be marked as per following details:-
- a. Gross weight (KGs), dimensions and consignment number (Top side)
 - b. Consignee Name, name of destination, Numbering of Packages and Contract No and date.
- 14. Inspection:** At consignee's end jointly by representative of and M/s _____ and UCG, and all expenditure of boarding and lodging and TA/DA of officers will be borne by the supplier.
- 14.1** Inspecting Authority: Designated rep. of MD UCG
- 14.2** Place of Inspection: At Manufacturer's Premises.
- 15. Short Shipment:** Short shipment, if any, will be the responsibility of the "Supplier".
- 16. Performance / Bank Guarantee Clause:** To ensure timely and correct supply of stores, the firm will furnish 2 % of the total value of the contract unconditional Bank Guarantee immediately on the signing of the contract, endorsed in favour of MD UCG which will remain valid for One year from the date of installation.
- 17. Modification / Amendments to Contract:** This contract may be modified / amended to include fresh clause (s) to the mutual agreement by the supplier and the purchaser. Such modification shall form an integral part of the contract.
- 18. Insurance:**
- 18.1** The supplier will arrange Insurance cover of the equipment upto the consignee's end.
- 19. Failure and Termination:** If the supplier fails to deliver the stores or any consignment within the period prescribed, then on the expiry of 30 days after such period the purchaser shall be entitled to take either of the following actions:-
- 19.1** To cancel the contract.
- 19.2** To purchase elsewhere store not delivered totally or partially at the risk and expense of the supplier. The supplier shall also be liable for any loss, which the purchaser may sustain on this account but shall not be entitled to any gain on re-purchase made against the contract.
- 20. Purchaser's Right:** The purchaser reserves the right of deletion, addition and cancellation of the contract, in part or full without assigning any reason whatsoever and without financial repercussion on either side within 30 days after the issuance of contract. Such information will be passed to the seller by the purchaser through the fastest possible means i.e. Telephone, Fax, Telex, Cable, Telegram, E-mail etc.
- 21. No Demand Certificate:** The supplier will submit 'NO DEMAND CERTIFICATE' on the completion of contract.
- 22. Secrecy:** The foreign suppliers / contractors undertaking along-with the local firm / agent that any information about the sale / purchase of stores under their contract shall not be communicated to any person other than the manufacturers of stores who too shall maintain strict secrecy and under no circumstance any

information shall be given to any person or agency not authorised by MD UCG. The foreign supplier's contractors should note that the contract is governed by the laws of Pakistan.

23. **Arbitration:** The contracting parties shall endeavor to resolve all their difference / disputes if any arising out of this contract. The matter in dispute or difference shall be referred to the decision of the MD UCG. His decision thereon shall be final and binding on the parties. The venue of arbitration shall be the place to be notified by the arbitrator at his discretion.

24. **Undertaking**

24.1 M/s _____ when signed contract No. _____ unconditionally guarantee the full and proper performance of this contract and hereby undertake to accept all liabilities to compensate the "Purchaser" for Acts / Defaults of our Principals.

24.2 We undertake that manufacturing date of our products / stores will not be more than three months old by the date of delivery.

SIGNATURE

SUPPLIER

PURCHASER

M/S _____

M/S UCG Project Thar

Designation _____

Designation Managing Director

Name _____

Name Dr. Muhammad Shabbir
H.I, S.I

Date _____

Date _____

WARRANTY/GUARANTEE CERTIFICATE

**The Managing Director
UCG**

Islamabad

From :M/s _____

Order No. _____ dated _____

1. We hereby guarantee that the goods supplied against the above contract are in all respects in accordance with the relevant specifications and terms of the order and that material used whether or not of our manufacture are in accordance with the latest approved standards and are of good workmanship/quality. We shall replace free of cost every article or part thereof which before use or in use shall be found defective or not within the limits and tolerance of specifications / requirements or in any way not in accordance with the terms of the tender.
2. In case of our failure to replace the defective stores free of cost with in the period specified by the purchaser, we will pay the relevant cost including all other expenses incurred by you.
3. The supplier also undertakes to make good the deficiency in supply, if any.
4. This warranty will remain valid for (12) twelve month after the date of commissioning/ receipt of material. . One year additional maintenance will be provided free of cost, cost of parts for additional year will be borne by _____.

Signature: _____

Relationship with the firm: Director

Date and seal of the firm: _____



UNDERGROUND COAL GASIFICATION PROJECT THAR



Tender Document

**Hiring Of Mechanical Machinery
Supply of Cement, Sand, Crush, Bricks, Hiring of Construction
Machinery, Purchase of Lubricating & Hydraulic Oils.
(UCG Project Thar, Islamkot, Distt: Mithi, Tharparkar, Sindh)**

Tender No: UCG/113-11-15

mt

M/s

1. Invitation to Tender and General Instructions.

Dear Sir, I invite you to tender for providing of "Hiring of Mechanical Machinery, Supply of Cement, Sand, Crush & Bricks, Hiring of Construction Machinery, Purchase of Lubricating & Hydraulic Oils" in accordance with the group-wise description of items at Appendix "A", Appendix "B", Appendix "C", & Appendix "D". Interested bidders may like to bid for more than one group, however separate envelope package (separate Technical offer and Financial offer for each group) must be submitted for each group mentioning Group number on the envelope e.g.

Tender No.113-11-15 for (Group 'A'- Hiring of Mechanical Machinery)
(Group -'B' Purchase of Lubricating Oil)
(Group- 'C' Supply of Cement, Sand, Crush, and Bricks)
(Group- 'D' Hiring of Construction Machinery)

2. Delivery of Tender:

- a) Quotation must be completed in all respect and original brochures must be attached.
- b) Earnest money equivalent to 2% of the total cost in the shape of Bank Draft, Pay Order and Bank Guarantee in favour of MD, UCG THAR must accompany the tender.
- c) The tender duly sealed will be addressed to the undersigned.

3. **Date and Time For Receipt of Tender:** Your tender must reach this office by the date and time specified in the "Schedule A". This Project will not accept any excuse of delay occurring in post. Tender received after the fixed date/time will NOT be entertained. Alternately tender can be brought to the tender opening venue at Underground Coal Gasification Project Thar, Village Bhambrio Bheel, District Tharparkar, Sindh one hour before opening time. Tender documents may also be obtained through email by submitting scanned copy of Bank Draft / Pay Order however its original should accompany the tender otherwise bid will not be considered.

4. Terms of Payment

Within thirty (30) working days after the receipt and successful inspection of stores

5. **Warranty.** All goods / stores / offered would be brand new, from current production and will be governed as per warranty clause. No escalation in the price will be given from the date of signing the contract.

6. **Validity of Offer.** The validity period of quotations must be indicated and should invariably be 90 days (Ninety days) from the date of opening of commercial/ financial offer.

6.1. The contract will be remained in force till end of financial year 30/06/2016.

7. **Photocopies of Documents.** Following information/copy of documents must be provided / attached with offer: -

- a) A copy of letter from the Bank showing firm's financial capability.
- b) Income tax and sales tax registration certificate issued by income tax and sales tax department as well as Government of Sindh for services rendered.
- c) Copy of original Principal/ Agency Agreement having current validity.

8. **Disqualification.** Offers are liable to be rejected if: -

- a) Earnest money is not attached with the offer.
- b) Offers are found conditional or incomplete in any respect.
- c) Manufacturer's relevant brochures and technical details on equipment are not attached in support of specifications.
- d) Received later than appointed/ fixed date and time.
- e) If the validity of the agency agreement is expired.
- f) If validity of offer is not quoted as required in IT or made subject to confirmation later.

9. **Rights Reserved.** UCG reserves full rights to accept or reject any or all offers including the lowest without assigning any reason.

10. **Application of Official Secret Act.** All the matters connected with this enquiry and subsequent actions arising there from come within the scope of the official Secret Act, 1923. You are, therefore, requested to ensure complete secrecy regarding documents and stores concerned with the enquiry and to limit the number of your employees having access to this information.

11. **Force Majeure.** As per international law.

12. **Subletting.** Supplier is not allowed to sublet wholly or part of the contract to any other firm/company without prior permission of the Purchaser. Firm found in breach of this clause will be dealt with as per purchaser's right and discretion.

Faithfully Yours

Procurement Officer

Underground Coal Gasification Project Thar

C/O Manager, National Bank of Pakistan,

Islamkot Branch, Islamkot

Tharparkar Sindh

Ph: # 0232-923008

Cell # 0345-2102922, 0344-4655000

Email: poucgtar@gmail.com

TECHNICAL PARAMETERS

1. Technical Specifications

- a) The machinery should conform to specifications/ technical data (if applicable). Offer not conforming to required specifications will be rejected.
- b) All machinery delivered would be in good working condition.

2. Inspection/ Testing of Store Inspection/testing will be carried out by the concerned inspecting team/ Engineer Incharge as detailed by the MD UCG Project Thar.

3. Change in Specification/ Manufacturer/ Model No alteration in quality of machinery/ equipment will be entertained after the tender has been opened. Any change/ improvement will require approval of tech authority/ user.

4. Provision of Machinery: Machinery on rental basis shall have to be supplied by the Supplier/ Firm within ten days of the issuance of work order.

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SCHEDULE TO TENDER

- 1) I/T No. **UCG/113-11-15**
- 2) Time and Date of Technical Bid at 1600 hrs on 04-12-2015
- 3) Time and Date of Financial Bid Opening at 1600 hrs on 05-12-2015

Group-'A'—Hiring of Hydraulic/ Crawler Crane, Low Bed Trailer and Fork Lift Truck etc. on rental basis for Fabrication, Erection and Installation of Plant at UCG.

Sr. No.	Description	Specification	Unit	Quantity
1	Hydraulic Crane	30-50 Ton	No	1
2	Crawler Crane	30-50 Ton	No	1
3	Low Bed Trailer	40 Feet	No	1
4	Fork Lifter	3-5 Ton	No	1

Special Instructions

1. This is rate running tender for the year 2015-2016. The above quantities are tentative, it can be increased or decreased and will be ordered as and when required basis
 - a) Work force/ machinery should be made available for work within 10 days' notice.
 - b) Quotation will be submitted on FOR Basis UCG Site.
 - c) Rate for monthly rent may be clear cut mentioned in Pak Rs. In words and figures.
 - d) The Unit Price shall include all applicable taxes.
 - e) The amount of mobilization/ demobilization in Pak Rs. For monthly rent.
 - f) Scope of work shall be mentioned separately of each item.
 - g) The working Hours will be 10 Hours daily.
 - h) Diesel will be provided, rest, maintenance will be responsibility of Supplier.

Annexure "A"

1. Scope of Work:

- 1.1 Shifting of vessels, equipment, piping, structural material including allied accessories (Approx. total weight 700 tons) from camp yard to plant site (distance about 600m).
- 2.1 Provision of the machinery & equipment on monthly rental basis for subject work given in Annexure A. The maintenance and oil change of machinery shall be the responsibility of the contractor/ firm.
- 2.2 The UCG site is located at a distance of 42 km away from Islamkot and about 400 km from Karachi.

- 2.3 The contractor/firm will provide the driver/operator with the each machinery which will be available 7/24 hrs. as and when required.
- 2.4 The petrol/ diesel will be provided by the UCG Project as per actual. However the supplier will be responsible for providing the detail logs of fuel consumption of the machinery.
- 2.5 The machinery should be in good working condition dully approved by the Engineer Incharge. In case of disorder or disfunctioning of any machinery or equipment, the supplier will repair or replace the same immediately at his own expenses. The deduction will be made from the bill for the period of maintenance and replacement of machinery or equipment.
- 2.6 The UCG will provide only lodging facility to the work force accompany with machinery.
- 2.7 Food will be available in Mess on cash payment basis.

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SCHEDULE TO TENDER

- 1) I/T No. UCG/113-11-15
- 2) Time and Date of Technical Bid at 1600 hrs on 04-12-2015
- 3) Time and Date of Financial Bid Opening at 1600 hrs on 05-12-2015

Group-'B'---Purchase of Lubricating & Hydraulic Oil

S #	lubrication oil	unit	Qty Required
1	Rotary Screw Compressor Oil (Synthetic) Grade with Brand (Great Wall 45020 or Mobil Rarus 825) Shell Pakistan, PSO, TOTAL, MOBIL or equivalent	No's	15 drum (209 or 210 liter each)
02	Piston Compressor Oil (Synthetic) Grade with Brand (L- DBA150 or Mobil Rarus 829) Shell Pakistan, PSO, TOTAL, MOBIL or equivalent	No's	04 drum (209 or 210 liter each)
03	Hydraulic oil Grade with Brand - 68 Shell Pakistan, PSO, TOTAL, MOBIL or equivalent	No's	03 drum (209 or 210 liter each)
04	Gear Lubrication Oil Grade with Brand - 90 Shell Pakistan, PSO, TOTAL, MOBIL or equivalent	No	01 drum (209 or 210 liter each)
05	15 W 40 Engine Oil Shell Pakistan, PSO, TOTAL, MOBIL or equivalent	No	16 Drum (209 or 210 liter each)

1. This is rate running tender for the year 2015-2016. The above quantities are tentative, it can be increased or decreased and will be ordered as and when required basis.

Typical Data Sheet of Great Wall 4502 Synthetic Oil for Screw Compressors

Items	Grade 68
Kinematic viscosity (40°C), mm ² /s	67.5
Neutralization value, mgKOH/g	0.17
Flash point (COC), °C	242
Freezing point, °C	-52
Anti-emulsification performance, min	2.1
Corrosion (T2Cu, 100°C, 3h) , level	1b
Carbon residue, %(m/m)	0.06
Before oxidation	0.17
After oxidation	

Typical Data Sheet of L- DBA150 Synthetic Oil for Piston Compressors

ISO viscosity grade	Grade 150
Kinematic viscosity, ASTM D 445	
cSt @ 40°C	146.6
cSt @ 100°C	14.36
Viscosity index, ASTM D 2270	95
Aging characteristics (200°C, air, Fe ₂ O ₃), ISO 6617	
evaporation loss, %	3.51
Conradson carbon residue increase, %	1.93
Foaming characteristics, sequence 1, ASTM D 892	50/0
Neutralisation number, mg KOH/g, ASTM D 664	0.59
Rust prevention, rating, ASTM D 665	
Copper corrosion, 3 hours @ 100°C, ASTM D 130	1b
Sulfated ash, wt%, ASTM D 874	0.12
Pour point, °C, ASTM D 97	-7
Flash point (COC), °C, ASTM D 92	258
Density @ 15°C, kg/l, ASTM D 4052	0.885

SCHEDULE TO TENDER

- 1) I/T No. UCG/113-11-15
 2) Time and Date of Technical Bid at 1600 hrs on 04-12-2015
 3) Time and Date of Financial Bid Opening at 1600 hrs on 05-12-2015

Group -C---"Cement, Sand, Crush, and Bricks"

S/ No.	Description of Stores	Unit	Qty approx	Rate	Amount
01	Cement i) Ordinary Portland cement as per BS and PS Standard. Packing: 50 Kg bag	Bags	10,000		
	ii) Sulphate Resistant Cement as per BS and PS Standard. Packing: 50 Kg bag	Bags	10,000		
02	Sand as per AASHTO Designation T-11 and T-27 and having clean, hard, strong, sound, durable, uncoated grains free from injurious amount of dust, lumps, soft or flaky particles, shall alkali, organic matter and shall not contain more than three (3) percent of material passing the no. 200 sieve by washing not more than one (1) percent of clay lumps or one (1) percent of shale. Passing of no 4 sieve must be 95% to 100% by weight. Hyderabad origin or equivalent. Testing and acceptance of material is subject to approval of Engineer In charge.	Cft	50,000		
03	Crush as per AASHTO Designation T-11, T-27, T-104 and T-96 and consist of crushed or broken stone, gravel having clean, hard, strong, sound, durable, uncoated particles free from injurious amount of soft, friable, thin elongated or laminated pieces, alkali, organic or other deleterious matter, shall be uniform grading and shall not contain more than one (1) percent by weight of material passing the no. 200 sieve by washing not more than one (5) percent of soft fragments and not more than five (5) % shall pass No.8 sieve by weight. Noriabad origin or equivalent. Testing and acceptance of material is subject to approval of Engineer In charge.	Cft	70,000		
04	Bricks fist class having strength of 1500 Psi as per BS & PS standard.	No.	300,000		

1. This is rate running tender for the year 2015-2016. The above quantities are tentative, it can be increased or decreased and will be ordered as and when required basis.

SCHEDULE TO TENDER

- 1) I/T No. UCG/113-11-15
- 2) Time and Date of Technical Bid at 1600 hrs on 04-12-2015
- 3) Time and Date of Financial Bid Opening at 1600 hrs on 05-12-2015

Group- D---"Hiring of Construction Machinery"

01	<u>Hiring of construction Machinery</u>				
i)	<u>Chain Excavator</u> Ex- 200 Hitachi or equivalent along with operator.	Month	12		
ii)	<u>Dumper</u> 10 wheeler, Nissan/ Hino or equivalent (6x6) along with driver.	Month	12		
iii)	<u>Water Bouzer</u> Nissam/ Hino or equivalent with 8000 or more liter water carrying capacity(6x6) along with driver.	Month	12		
iv)	<u>Concrete Mixer Machine</u> having capacity 1.5 cement bag, 36" dia of drum, complete set along with operator.	Month	12		
v)	<u>Bulldozer</u> D-85 Caterpillar or Equivalent	Hours	1000		

Special Instructions.

- 1) This is rate running tender for the year 2015-2016. The above quantities are tentative, it can be increased or decreased and will be ordered as and when required basis.
- 2) The Unit Price shall include all applicable taxes otherwise bid will be rejected.
- 3) The Unit Price shall be submitted on F.O.R (including Loading and Unloading) basis UCG Site at Bhanbhiniobheel, Islamkot except item no 05.
- 4) The mobilization and demobilization cost will be paid at each time for item no 05 as follows;
 - i) Chain Excavator:-
 - a) Mobilization cost Rs. 15,000/-.
 - b) Demobilization cost Rs. 15,000/-
 - ii) Dumper:-
 - a) Mobilization cost 25 liters diesel or equivalent cost.

b) Demobilization cost 25 liters diesel or equivalent cost.

iii) Water Bouzer:-

a) Mobilization cost 20 liters diesel or equivalent cost.

b) Demobilization cost 20 liters diesel or equivalent cost.

iv) Concrete Mixer Machine

a) Mobilization cost 10 liters diesel or equivalent cost.

b) Demobilization cost 10 liters diesel or equivalent cost.

v) Bulldozer:-

a) Mobilization cost Rs. 10,000/-.

b) Demobilization cost Rs. 10,000/-

05) Additional terms and condition for item no. 06 Hiring of Construction Machinery.

- i. The above stated machinery at sr. no 06 is required for monthly basis (30 days in a month and 8 hrs daily working).
- ii. The supplier will provide the driver/Operator and Helper with the each machinery which will be available 7/24 hrs as and when required. However, the client will pay the over time for extra working hrs.
- iii. The expenditure incurring on the maintenance/equipment, oil change, insurance/ accident caused by thereof will be borne by the supplier.
- iv. The petrol/diesel will be provided by the client as per actual.
- v. The supplier will be responsible for providing the detail logs of fuel consumption of the machinery.
- vi. The machinery should be in good working condition duly approved by the engineer Incharge.
- vii. In case of disorder or dis functioning of any machinery, the supplier will repair or replace the machinery immediately at his own expenses. The time to repair, disorder or dis functioning or replacement of machinery should not paid by the client and deduction of the same will be made in the payments.

06) The bidders may participate for single item or sub item.

07) Date by which store can be delivered by the firm/supplier is to be specified_____.

PART 1 - GENERAL TENDERING INSTRUCTIONS

- 1.1 The quotation shall be **strictly in accordance** with Underground Coal Gasification Project Thar Tender Document.
- 1.2 Actual ordered quantity of workforce/ machinery can be decreased or increased.
- 1.3 The quoted prices should be in **Pak. Rupees**; otherwise bid will automatically be rejected. Bidders have to quote their prices based on Underground Coal Gasification Project Thar Tender Document conditions.
- 1.4 Bid should officially be stamped by the bidder on all the pages of the received Tender Document.
- 1.5 An interested bidder, who has obtained bidding documents, may request for clarification of contents of the bidding document in writing, and Project Authority shall respond to such queries in writing within three calendar days, provided they are received at least five calendar days prior to the date of opening of bid;
- 1.6 Answers to questions seeking for clarification of technical matters will be sent to all Bidders without identifying the source of the query.
- 1.7 At any time prior to the deadline for the submission of Bids, Project may, for any reason, whether at its own initiative or in response to a clarification requested by a Bidder, modify the Bidding Documents by amendment.
- 1.8 The amendment will be forwarded in writing to all Bidders and will be binding on them. In order to grant Bidders sufficient time to take the amendment into account, PROJECT may, at its discretion, extend the deadline for the submission of Bids.
- 1.9 Bid closing date is **04 December 2015 at 1500 hours local Pakistani time**. Bids received after bid-closing date will be automatically rejected. Bids once submitted will have to stand valid during the validity period as stated in Para 5 of the bidding document. Bidders are not allowed to modify or add anything to or to withdraw their Bid after Closing Date.
- 1.10 Bidder should indicate his full acceptance of:
 - Underground Coal Gasification Project Thar Pakistan's General Purchasing Terms
 - Standard Conditions of the Contract
 - Special Conditions of the Contract



1.11 The bid package must consist of **TWO ENVELOP PROCEDURE:**

- a) Bid shall comprise a single package containing two separate envelopes. Each envelop shall contain separately the financial proposal and the technical proposal.
- b) Envelopes shall be marked as "**FINANCIAL PROPOSAL**" and "**TECHNICAL PROPOSAL**" in bold and legible letters to avoid confusion.
- c) Initially, only the envelope marked "**TECHNICAL PROPOSAL**" shall be opened.
- d) Envelopes marked as "**FINANCIAL PROPOSAL**" shall be retained in the custody of the procuring agency without being opened.
- e) Procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements.
- f) No amendments in the technical proposal shall be permitted during the technical evaluation.
- g) Financial proposals of technically qualified bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance as in tender notice.
- h) Financial proposals of bids found technically non-responsive shall be returned un-opened to the respective bidders.
- i) Bid found to the lowest evaluated or best evaluated bid shall be accepted.

Note

- i. The earnest money to be valid for 90 days from the bid closing date.
- ii. Statement of acceptance of all tender terms of Underground coal gasification project Thar Pakistan.
- iii. **No prices should** be shown in first envelope.
- iv. The evaluation of any company shall not be continued in case they fail to meet the criteria of the envelope requirements.
- v. **One offer** will only be accepted from each bidder.
- vi. The quotation must be **valid** for at least 90 days after bid closing.
- vii. In case bidder **does not want to participate**, he is advised to inform: Underground Coal Gasification Project Thar Pakistan by return mail referring to relevant Tender No. through letter which should be addressed to: -

Procurement Officer Underground Coal Gasification Project Thar
C/O Manager, National Bank of Pakistan, Islamkot Branch, Islamkot Tharparkar Sindh
Ph: # 0232-923008 Cell # 0345-2102922, 0344-4655000 Email: poucgtar@gmail.com

1.12 In case Bidder is interested to participate in the referred Tender, it should send back by fax -the attached Acknowledgement Letter to the Project within a fortnight from the receipt of the Tender Document.

1.13 Each envelope should be clearly marked with the bidder's company name.

- 1.14 In the first envelope the mailing address and telex and/or fax number of the bidder should be clearly seen.
- 1.15 Services offered must be clearly stated and availability of each service must be mentioned keeping in view our schedule stated under Introduction above. This information should be clearly stated and documented in the Technical Offer envelope.
- 1.16 Bidder must submit in "FINANCIAL" envelope the earnest money. This earnest money (in the shape of bank draft / pay order) must be equal to 2% of total value of work.
- 1.17 The earnest money shall be returned to its owner if his bid is rejected or the bidder has not awarded the Contract. The earnest money must be valid for three months (90 days) after receiving of bid.

PART 2 - ADDITIONAL TENDERING INSTRUCTIONS

- 2.1 The equipment specifications contained in Schedule represent the minimum requirement which UCG Project Thar considers necessary to accomplish concerned job.
- 2.2 All items listed in Schedule and later on should be addressed in the same order and detail as specified.

Note: Every request should have a "subject" line that clearly indicates the tender reference number.



PART 3 - GENERAL PURCHASING TERMS

- 3.1 **Payment Terms:** Within 30 days after the receipt of invoices against work done.
- 3.2 **Delay Penalty:** As per clause 12 of the contract.
- 3.3 PROJECT reserves the right to accept other than the lowest Bid, to split the **Contract between multiple CONTRACTORS** and to accept or reject any Bid in whole or in part, or to reject all Bids **with or without notice or reasons**, and if no Bids are accepted, to abandon the work or to have the work performed in such manner as the issuer may elect, in this later case all Bids received will be sent back as received to the Bidders.
- 3.4 PROJECT shall not be liable for any costs and/or expenses incurred by the Bidder in the preparation and delivery of the Tender.
- 3.5 The Tender and it's any supporting documentation and the Contract shall be in the English language.
- 3.6 **Pricing:** PROJECT shall make no advance payment to the successful Bidder. PROJECT will accept no liability for the Bidder's failure to include all taxes, duties and the like in its bid.
- 3.7 Project will negotiate the exceptions if any with the bidders before finalizing the evaluation, the outcome of which will have the impact on the ranking of the bidders.
- 3.8 Delivery period of Machinery must not be more than ten days from the date of placement of work order.
- 3.9 In case of a conflict in two clauses, the contents of General Tendering instructions will be final.

H

UNDERGROUND COAL GASIFICATION
PROJECT THAR



CONTRACT

UNDERGROUND COAL GASIFICATION THAR PROJECT

PROCUREMENT DIVISION

CONTRACT No. Dated _____, 2015

An agreement made on the ___ day of _____ Two thousand and fourteen between the UCG (hereinafter called the 'PURCHASER') of the one part and M/s _____ herein after called the "SUPPLIER" of the other part.

Whereby it is agreed that the Purchaser shall purchase and the Supplier shall provide the machinery on rental basis described in the Schedule-'A' at the price mentioned therein subject to the special conditions covered in the contract and the international law.

WARNING

Any information about the sale/purchase of the stores under this contract shall not be communicated to any person, other than the manufacturer of the stores or to any press or agency not authorized by the Procurement Officer to receive it. The breach of the undertaking shall be punishable under the Official Secrets Act, 1923.

H

1. **Name of Project:** UNDERGROUND COAL GASIFICATION THAR PROJECT
2. **Description of Equipment:** As per attached Appendix "A", "B", "C", & "D"
3. **Consignee:** UCG Thar
4. **Details of Item:**

Technical Specifications: Complete information has been provided in Schedule "A".
5. **Total FOR Value:**
 - 5.1 **PAK Rupees:** Rs. _____ (PKR _____)
6. **Terms of Payment:**
 - 6.1 All payments will be released on monthly basis after submission of invoice by the supplier.
 - 6.2 2% payment will be retained as performance guarantee.
 - 6.3 Part payment is allowed.
7. **Time of Delivery:** As specified in Para 4 of "Technical Parameters".
8. **Principal/ Manufacturer:** M/S _____
9. **Sole Distributors/ Agent:** M/s. _____
10. **Country of Origin:** _____
11. **Warranty/Guarantee: As per Annex "D"**
 - 11.1 During the whole period of the installation/ erection of the plant.
 - 11.2 Firm will maintain a sizeable inventory of manpower and machinery during warranty period. (List will be provided by the supplier)
12. **Imposition of Delay Charges:** The supplier is liable to pay for the period of delay in the provision of machinery @ 2% of the monthly invoice.
13. **Force Majeure:** As per International Law.



14. **Inspection:** Purchaser shall have the right to inspect the machinery being supplied. Also suitability of the manpower shall be ensured by the supplier. Inspection shall be at Supplier's premises by the authority nominated by the **MD UCG**.
15. **Performance / Bank Guarantee Clause:** To ensure timely and correct supply of services, the firm will furnish 2 % of the total value of the contract unconditional Bank Guarantee immediately on the signing of the contract, endorsed in favour of **MD UCG** which will remain valid for One year from the date of supply.
16. **Modification / Amendments to Contract:** This contract may be modified / amended to include fresh clause (s) to the mutual agreement by the supplier and the purchaser. Such modification shall form an integral part of the contract.
17. **Failure and Termination:** If the supplier fails to provide manpower and machinery within the period prescribed, then on the expiry of 10 days after such period the purchaser shall be entitled to take either of the following actions:-
- 17.1 To cancel the contract.
- 17.2 To hire from elsewhere manpower and machinery not delivered totally or partially at the risk and expense of the supplier. The supplier shall also be liable for any loss, which the purchaser may sustain on this account but shall not be entitled to any gain on re-purchase made against the contract.
18. **Purchaser's Right:** The purchaser reserves the right of deletion, addition and cancellation of the contract, in part or full without assigning any reason whatsoever and without financial repercussion on either side within 30 days after the issuance of contract. Such information will be passed on to the supplier by the purchaser through the fastest possible means i.e. Telephone, E-mail etc.
19. **No Demand Certificate:** The supplier will submit 'NO DEMAND CERTIFICATE' on the completion of contract.
20. **Secrecy:** The foreign suppliers / contractors undertaking along-with the local firm / agent that any information about the sale / purchase of stores under their contract shall not be communicated to any person other than the manufacturers of stores who too shall maintain strict secrecy and under no circumstance any information shall be given to any person or agency not authorised by MD **UCG**. The foreign supplier's contractors should note that the contract is governed by the laws of Pakistan.

21. **Arbitration:** The contracting parties shall endeavor to resolve all their difference / disputes if any arising out of this contract. The matter in dispute or difference shall be referred to the decision of the MD UCG. His decision thereon shall be final and binding on

the parties. The venue of arbitration shall be the place to be notified by the arbitrator at his discretion.

22. **Undertaking**

22.1 M/s _____ when signed contract No. _____ unconditionally guarantee the full and proper performance of this contract and hereby undertake to accept all liabilities to compensate the "Purchaser" for Acts / Defaults of our Principals.

SIGNATURE

SUPPLIER

PURCHASER

M/S _____

M/S UCG Project Thar

Designation _____

Designation: Managing Director

Name _____

Name: Dr. Muhammad Shabbir
H.I, S.I

Date _____

Date: _____



WARRANTY/ GUARANTEE CERTIFICATE

**The Managing Director UCG
Islamabad**

From: M/s _____

Order No. _____ Dated _____

1. We hereby guarantee that the goods supplied against the above contract are in all respects in accordance with the relevant specifications and terms of the order and that material used whether or not of our manufacture are in accordance with the latest approved standards and are of good workmanship/quality. We shall replace free of cost every article or part thereof which before use or in use shall be found defective or not within the limits and tolerance of specifications / requirements or in any way not in accordance with the terms of the tender.
2. In case of our failure to replace the defective stores free of cost within the period specified by the purchaser, we will pay the relevant cost including all other expenses incurred by you.
3. The supplier also undertakes to make good the deficiency in supply, if any.
4. This warranty will remain valid for (12) twelve month after the date of commissioning/receipt of material.

Signature: _____

Relationship with the firm: Director

Date and seal of the firm: _____

