

STAMP OFFICE CITY COURT, KARACHI

Issued to M/S Sachal Engineering Works (Pvt)
NIC/Company Card No. 42201-053364743
Vide D.S.R. No. 15 dated 6-3-15
On behalf of challan No: 231 Dt. 6-3-15
for the purpose of ARR
15 Dated 6-3-15

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06-3-15
Sp. Office Dando

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12/10
11-3-15

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30/3/15

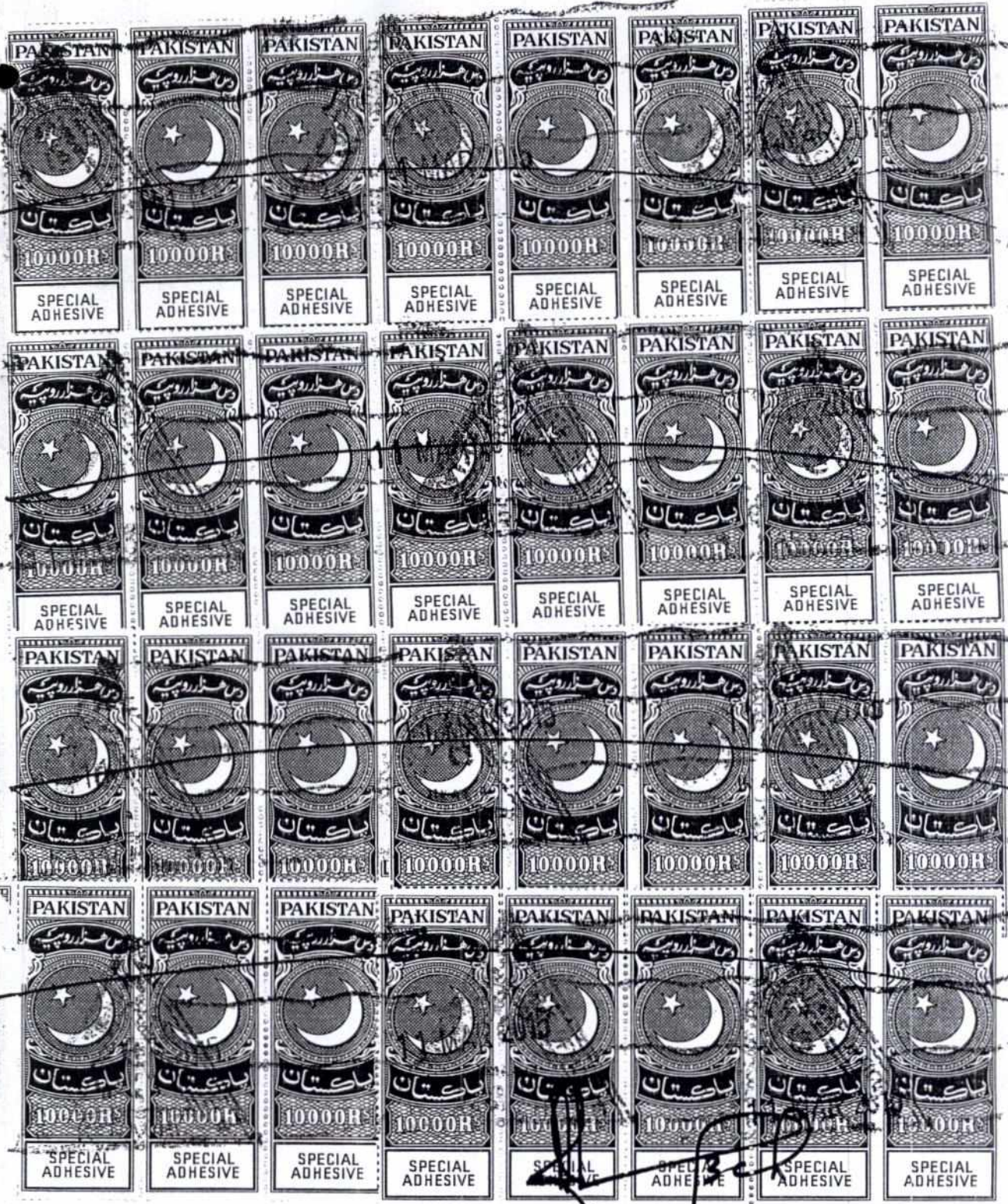
CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the 13th day of **March** (month), **2015** between **Sindh Coal Authority** (hereafter called the "Procuring Agency") of the one part and **M/s Sachal Engineering Works (Pvt) Ltd** (hereafter called the "Contractor") of the other part.

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13/3/15

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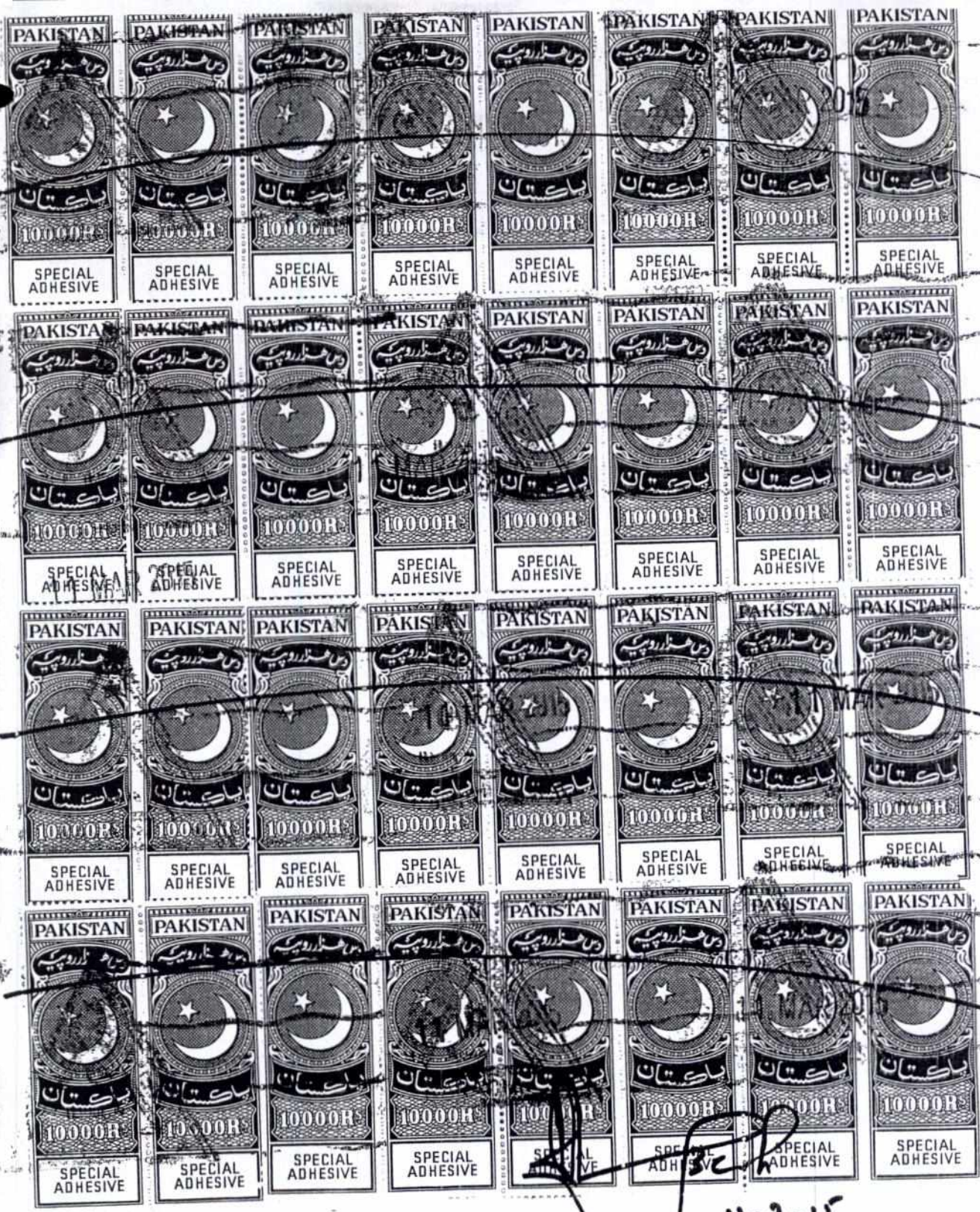
WHEREAS the Procuring Agency is desirous that certain works, viz **Construction of 4-Lane Bridge over River Indus on Thatta Sujawal Road on EPC/Turnkey Basis, Contract Package No. SCA/PHASE-I/CP-VII** should be executed by the Contractor and has accepted a bid of **Rs. 2,750,590,313** (Rupees Two billion, Seven Fifty million, Five Hundred ninety thousand, Three hundred & thirteen only)



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offered by the Contractor for the execution and completion of such works and the remedying of any defects therein.

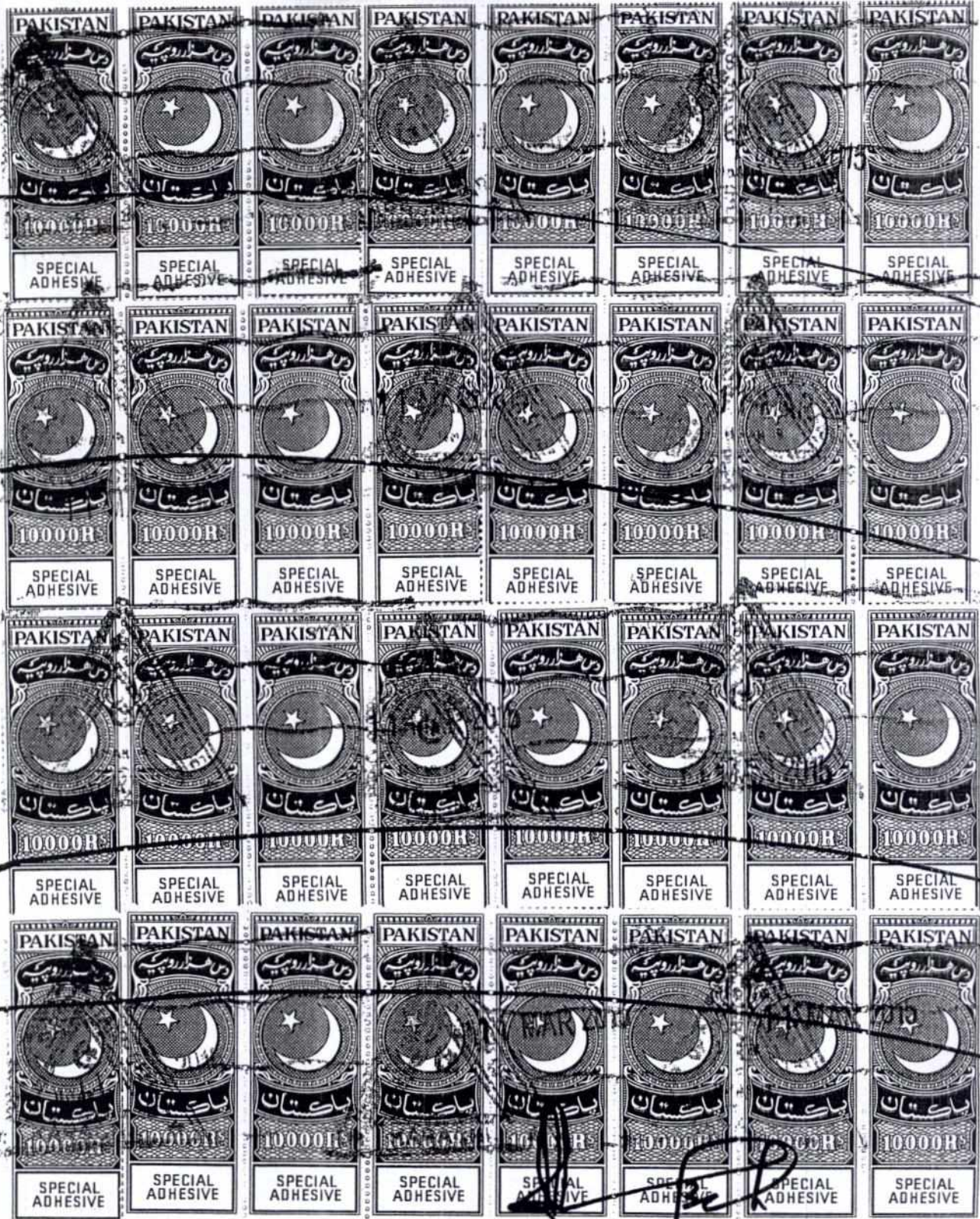
NOW this Agreement Witnesseth - as follows:



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11-3-15

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



13/3/15

Signature
PAKISTAN ENGINEERING WORKS

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2. The following documents after incorporating addenda, if any,



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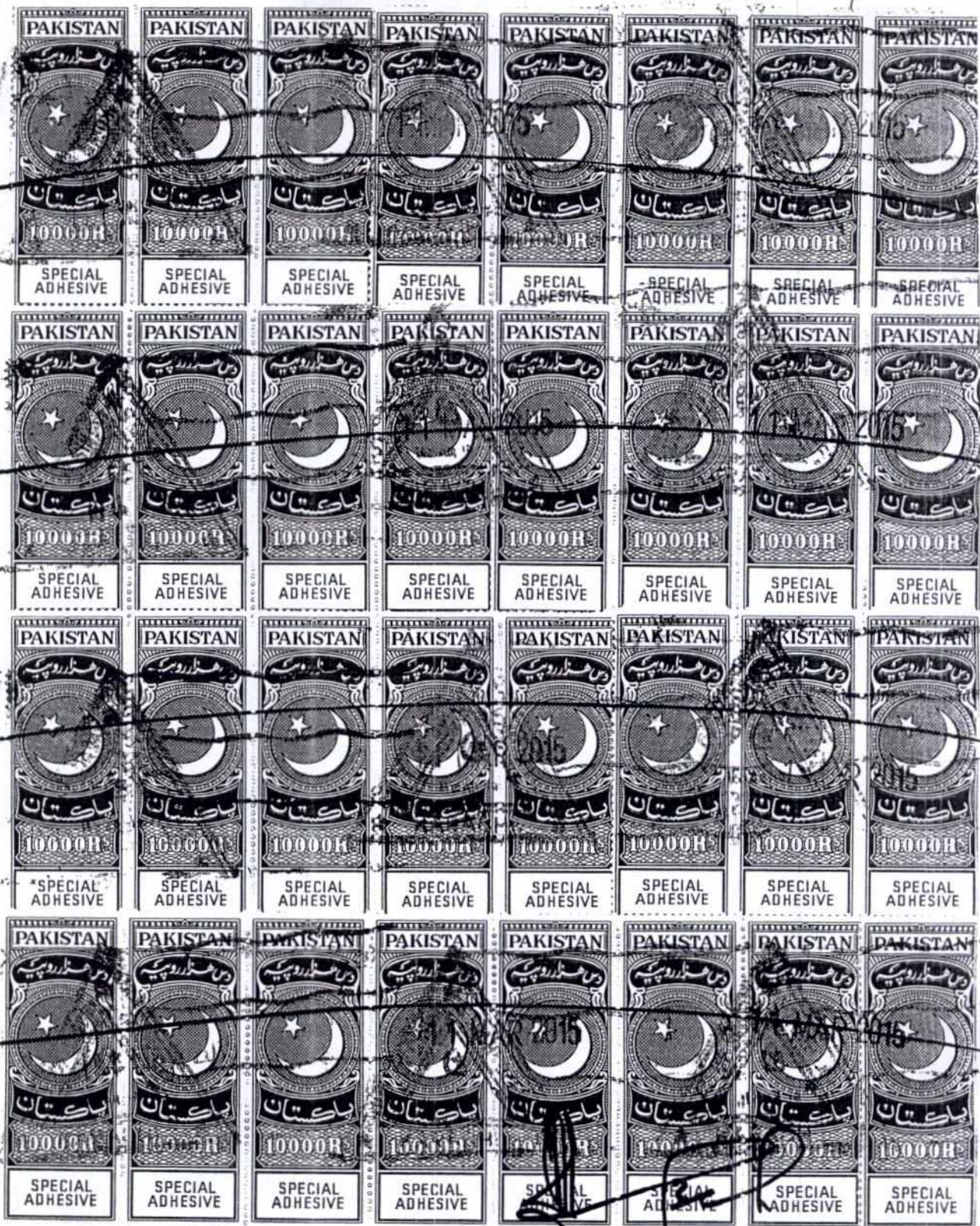
except those parts relating to Instruction to bidders shall be deemed



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Page No.7

to form and be read and construed as part of this Agreement, viz;



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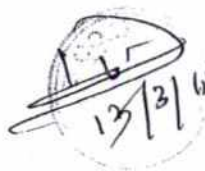


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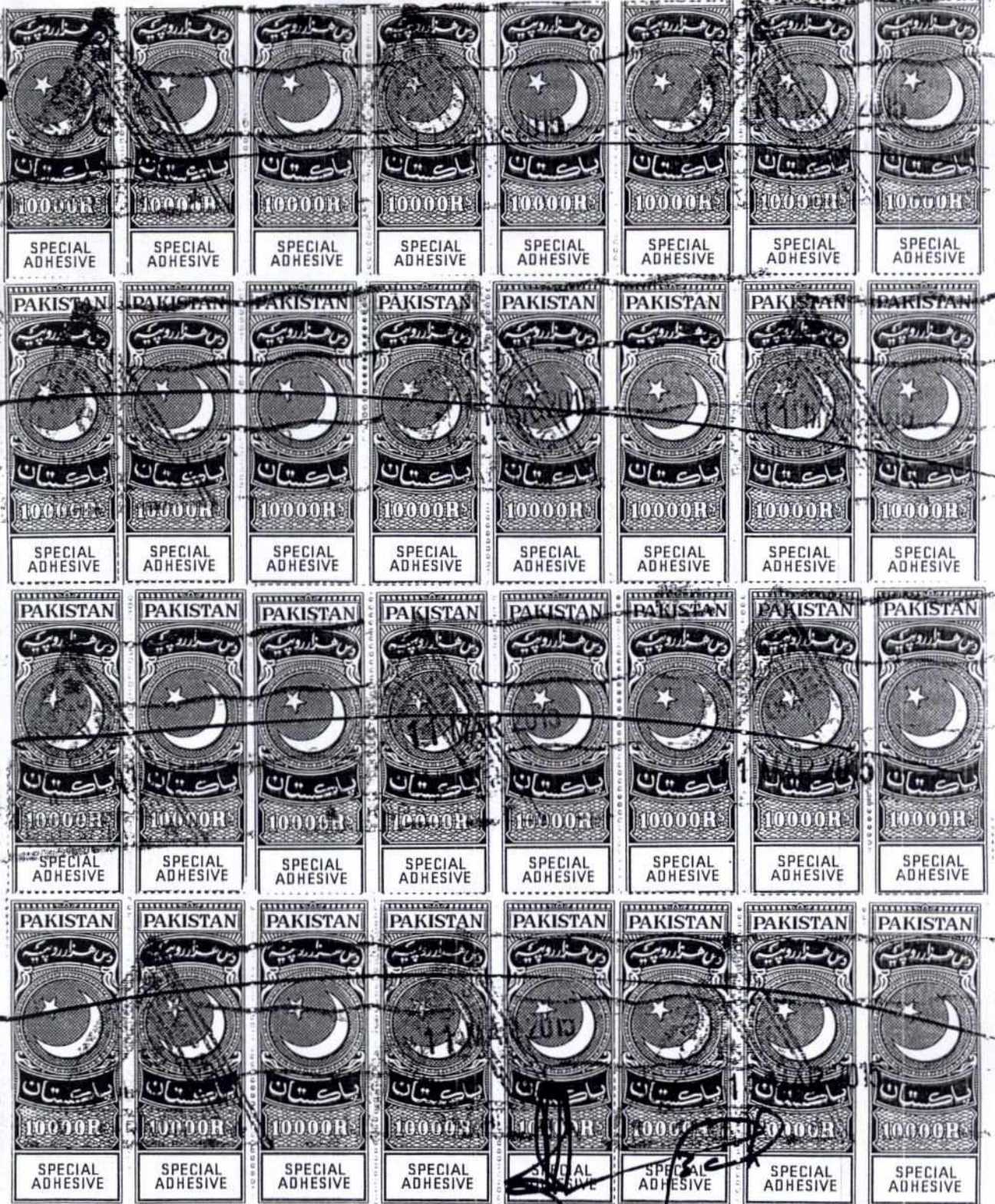
11-3-15

Page No.8

a) The Contract Agreement;



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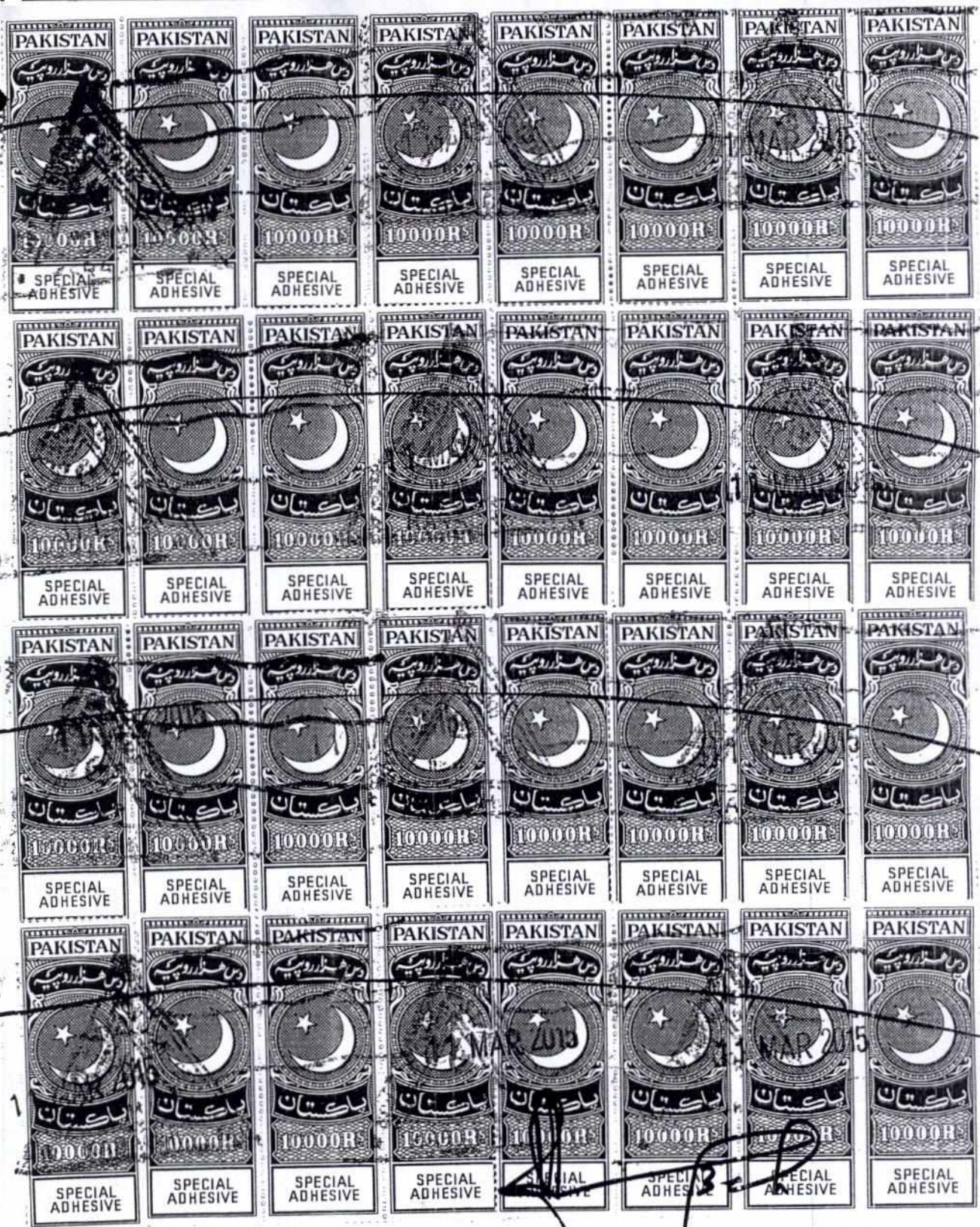
b) The Letter of Acceptance;



13/3/15

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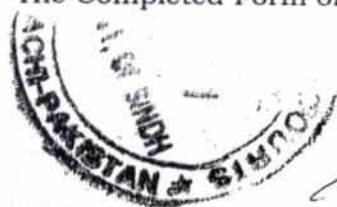




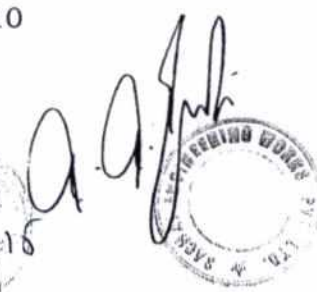
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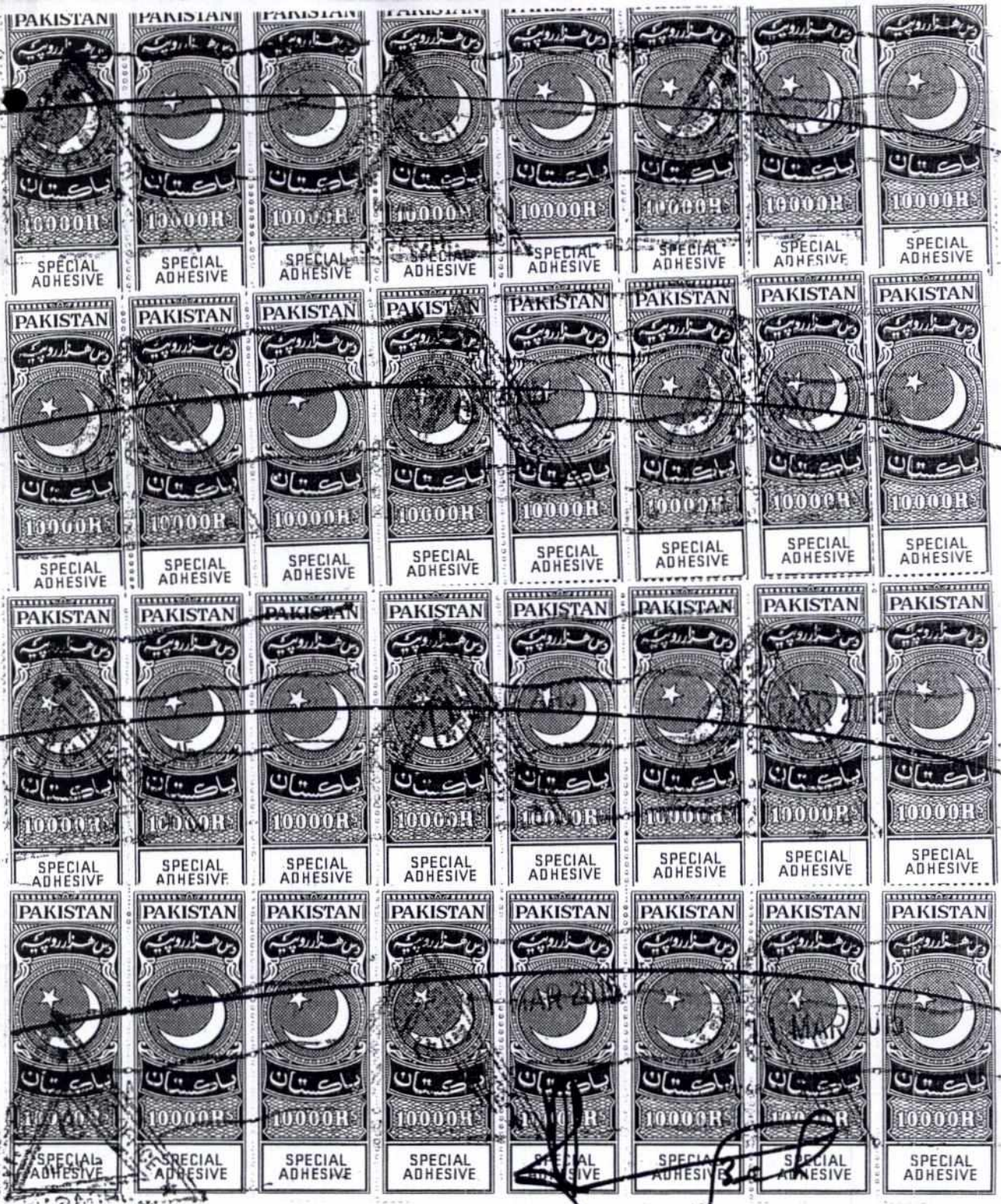
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c) The Completed Form of Bid;



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d) The Particular Conditions of Contract – Part A; (Appendix – A to Bid)

Handwritten signatures and stamps. On the left, a circular stamp reads 'COURT OF SINDH PAKISTAN'. In the center, there is a handwritten signature and the date '13/3/13'. On the right, another circular stamp reads 'RAJAL PERISHAD WAZIR'.



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11-3-15

e) The Particular Conditions of Contract – Part B;



12/3/15





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f) The General Conditions - Part I;



13/2/15

a. a. Juh
PAKISTAN
POSTAL

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g) Employer's Requirements (Technical, Special Provision, Addenda to NHA General Specifications 1998, The NHA General Specifications, Conceptual Drawings)



a.a. Jilani
13/3/15

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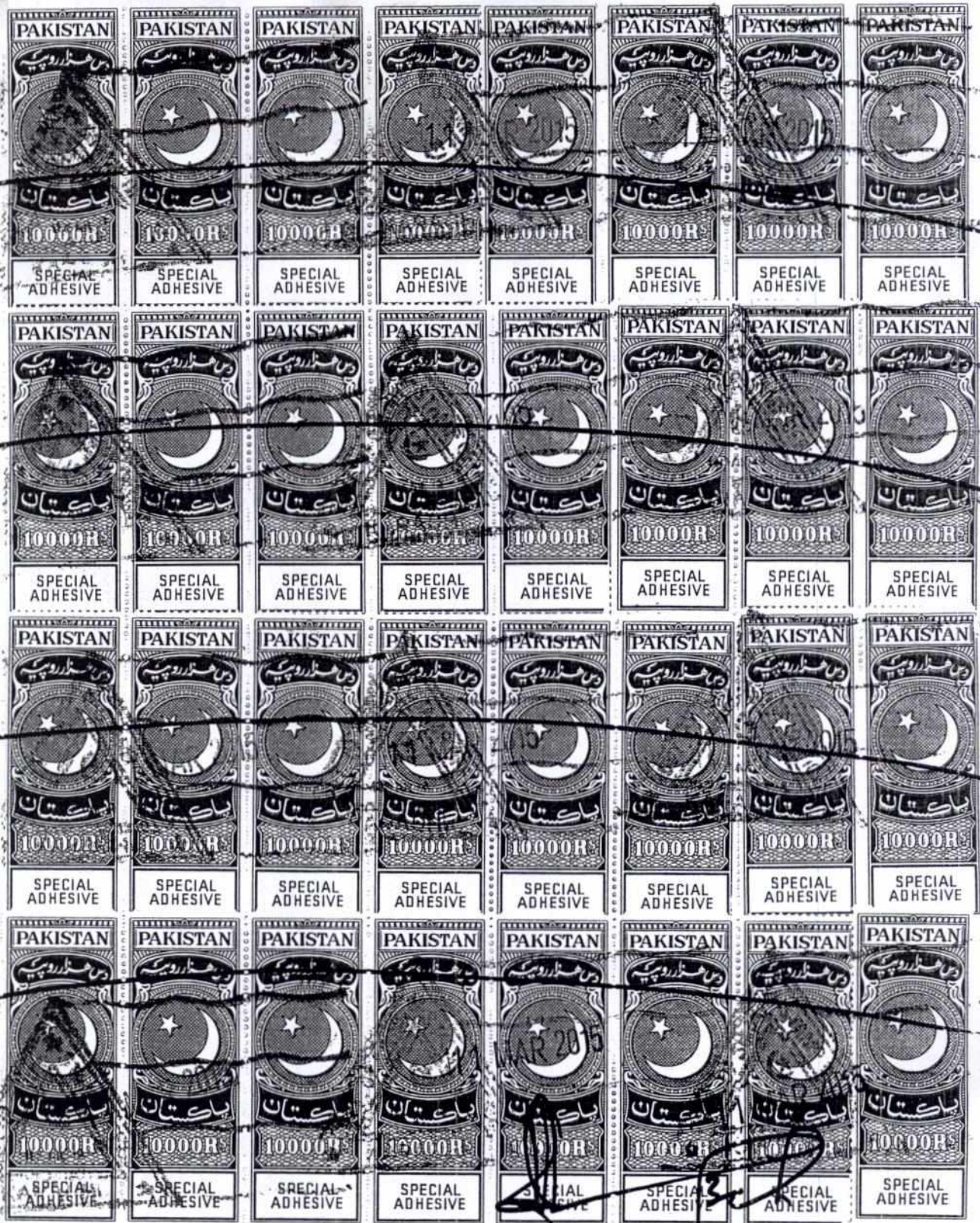
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h) The Completed Appendices to Bid (B, C, E to L);



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i) The Schedule of Prices (Appendix - D to Bid);



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j) _____ (any other);



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3. In consideration of the payments to be made by the procuring agency to the Contractor as hereinafter mentioned,



1378/15



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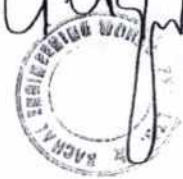
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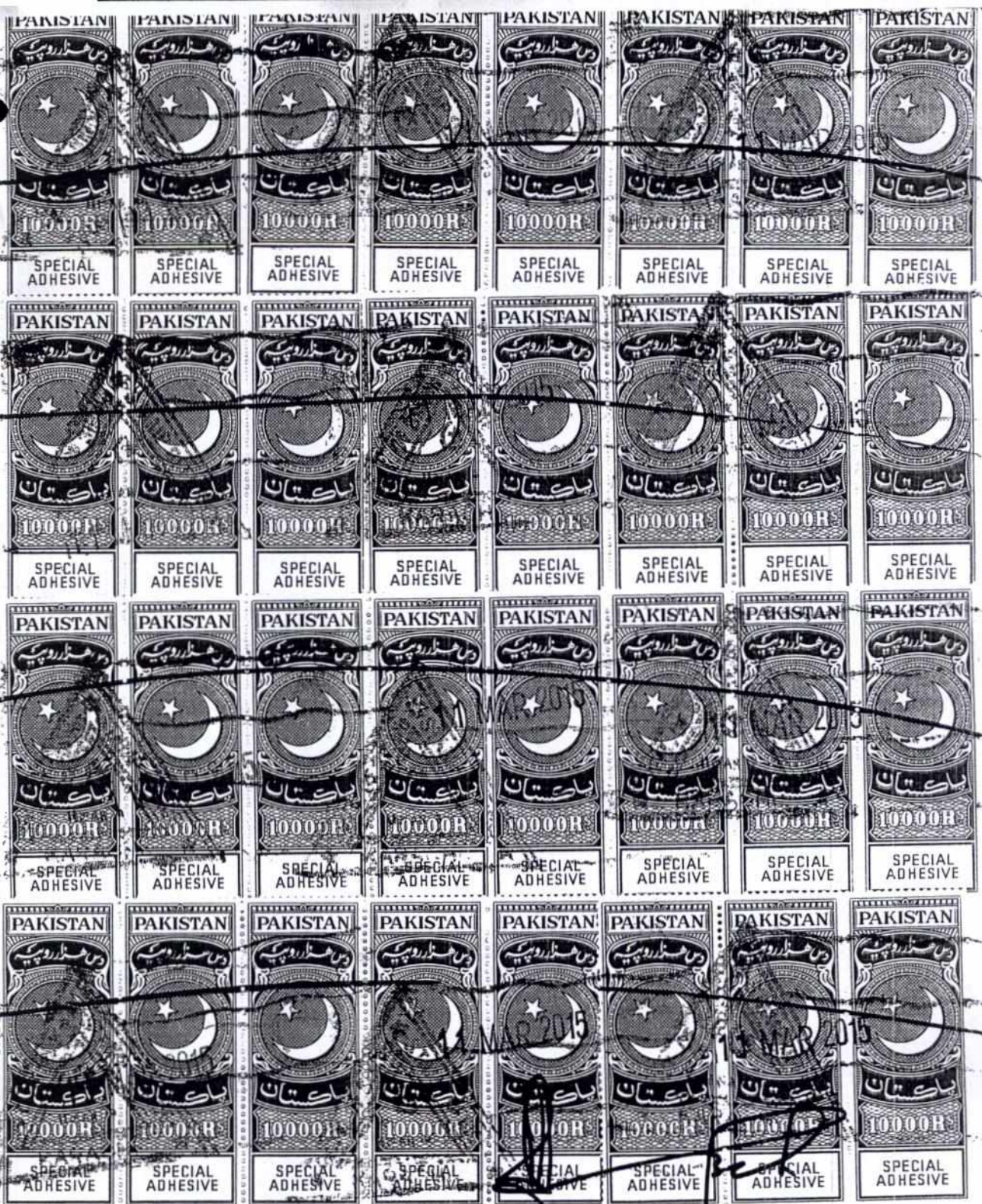
The Contractor hereby covenants with the procuring agency to execute and complete the works and



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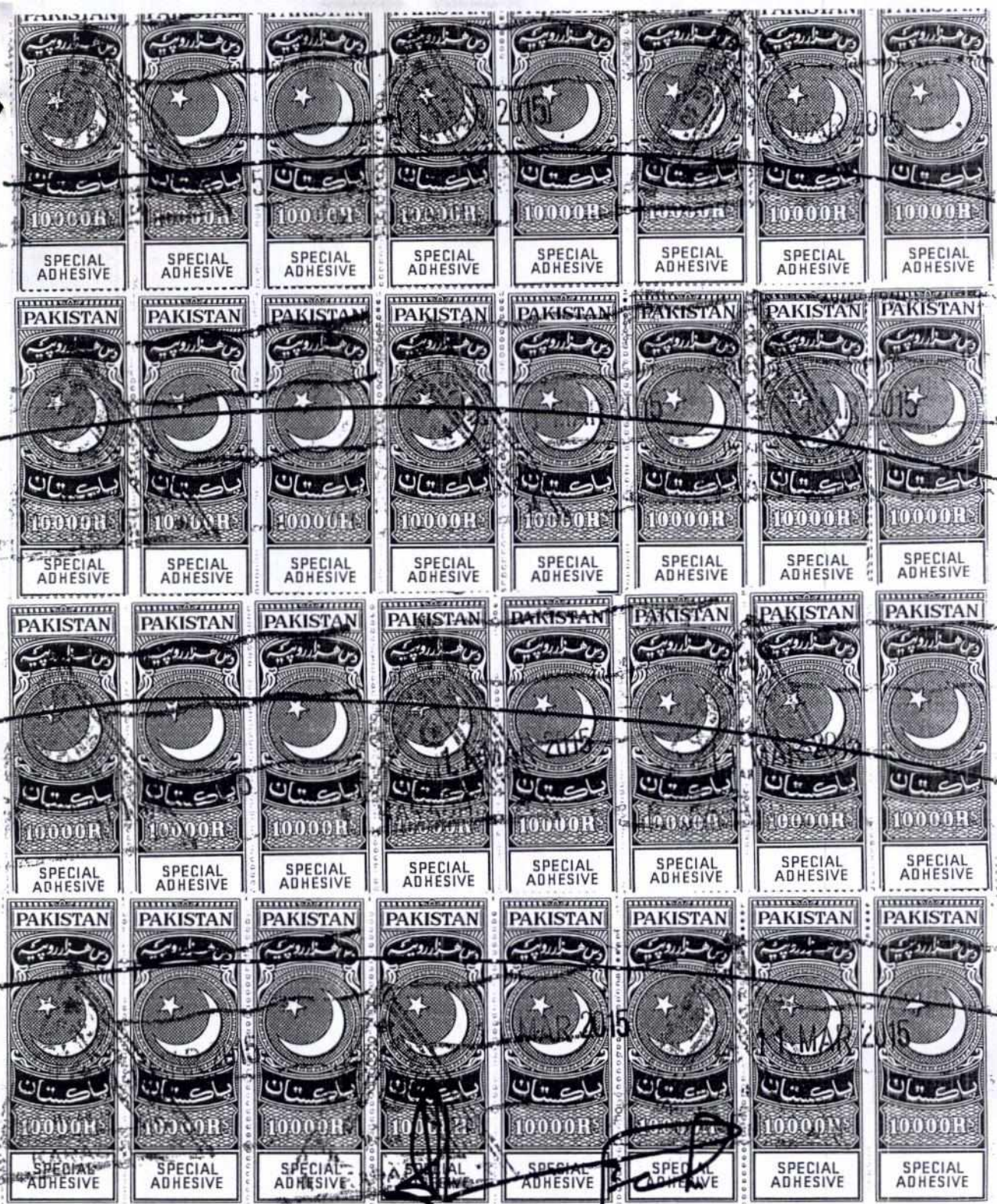
remedy defects therein in conformity and in all respects with the provisions of the contract.



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[Signature]



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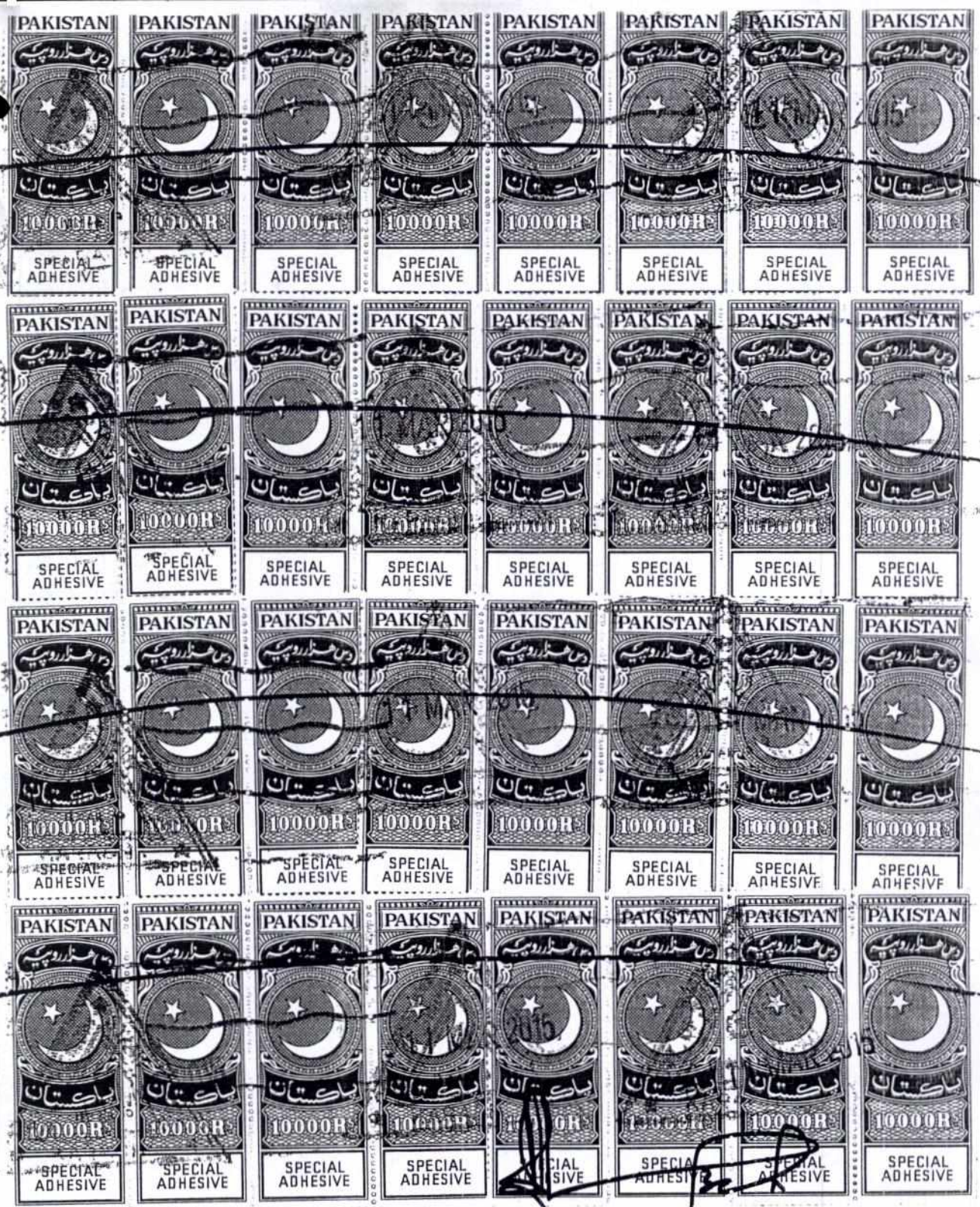
4. Procuring agency hereby covenants to pay the contractor,



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in consideration of the execution and completion of the works as per provisions of the contract the contract Price

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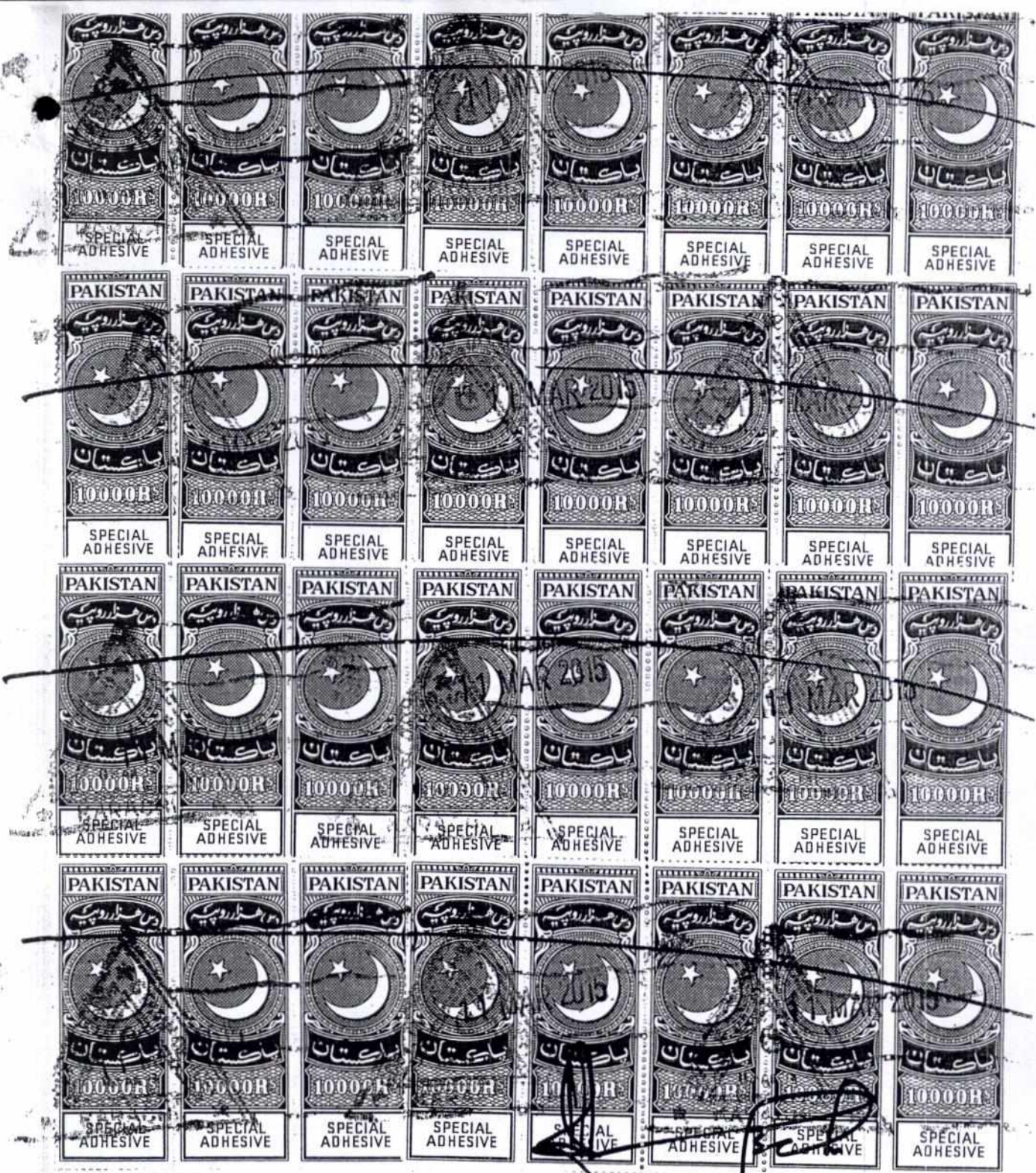
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or such other sum as may become payable under the provisions of the contract,



13/3/15
A. A. Jafar
SPECIAL ENGINEER (WATER WORKS)



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at the times and in the manner prescribed by the contract.



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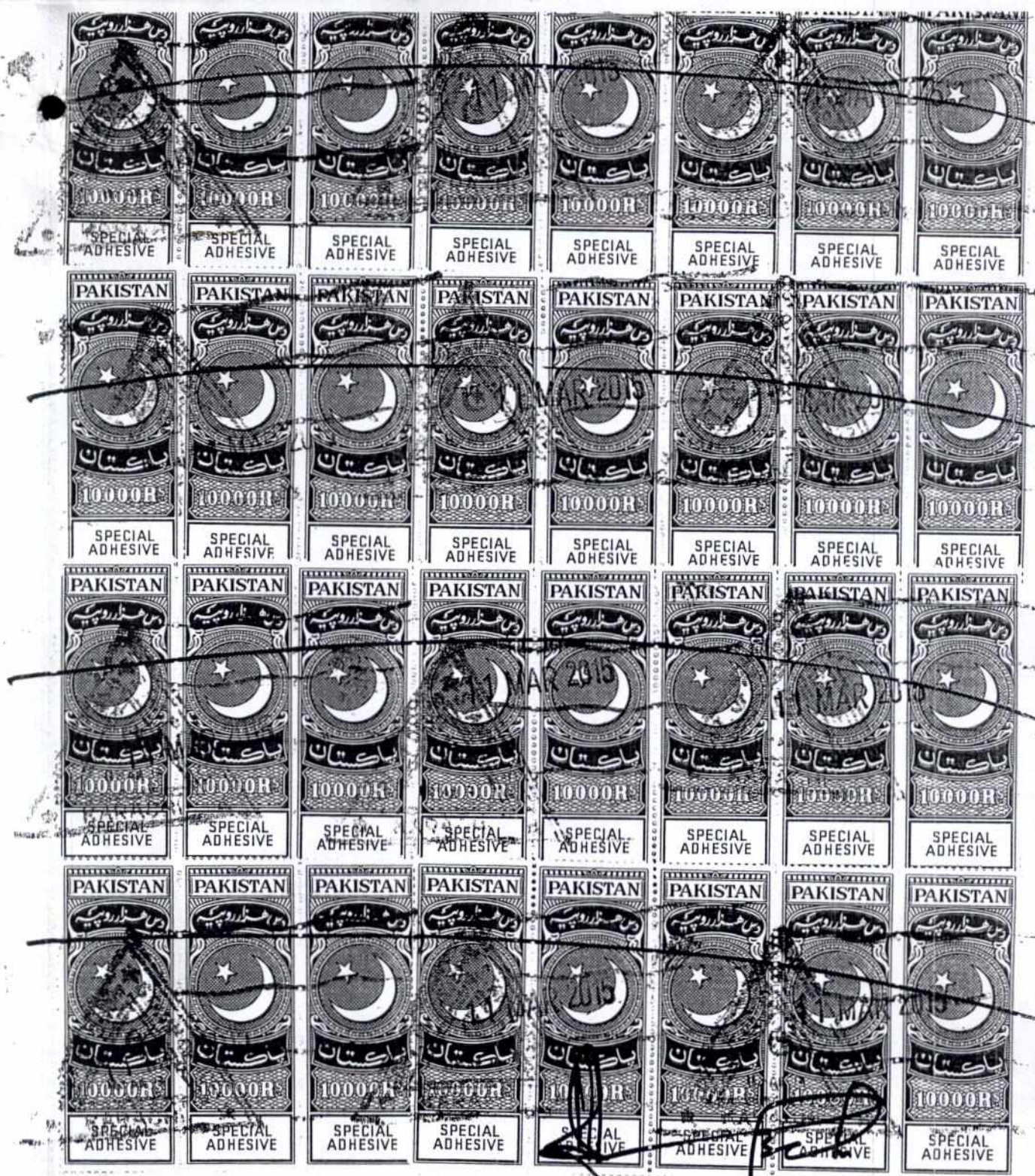
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at the times and in the manner prescribed by the contract.



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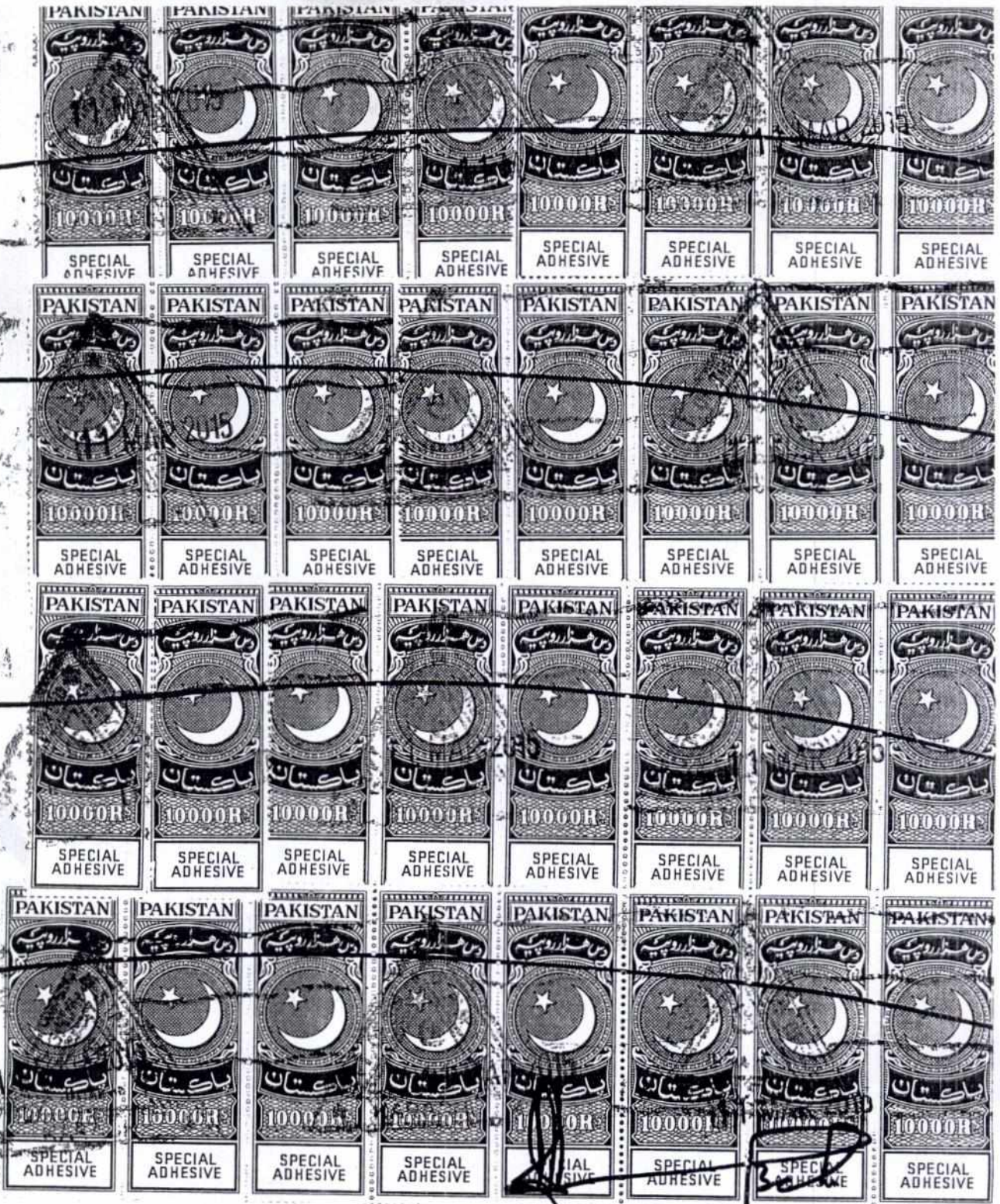
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at the times and in the manner prescribed by the contract.



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IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day,



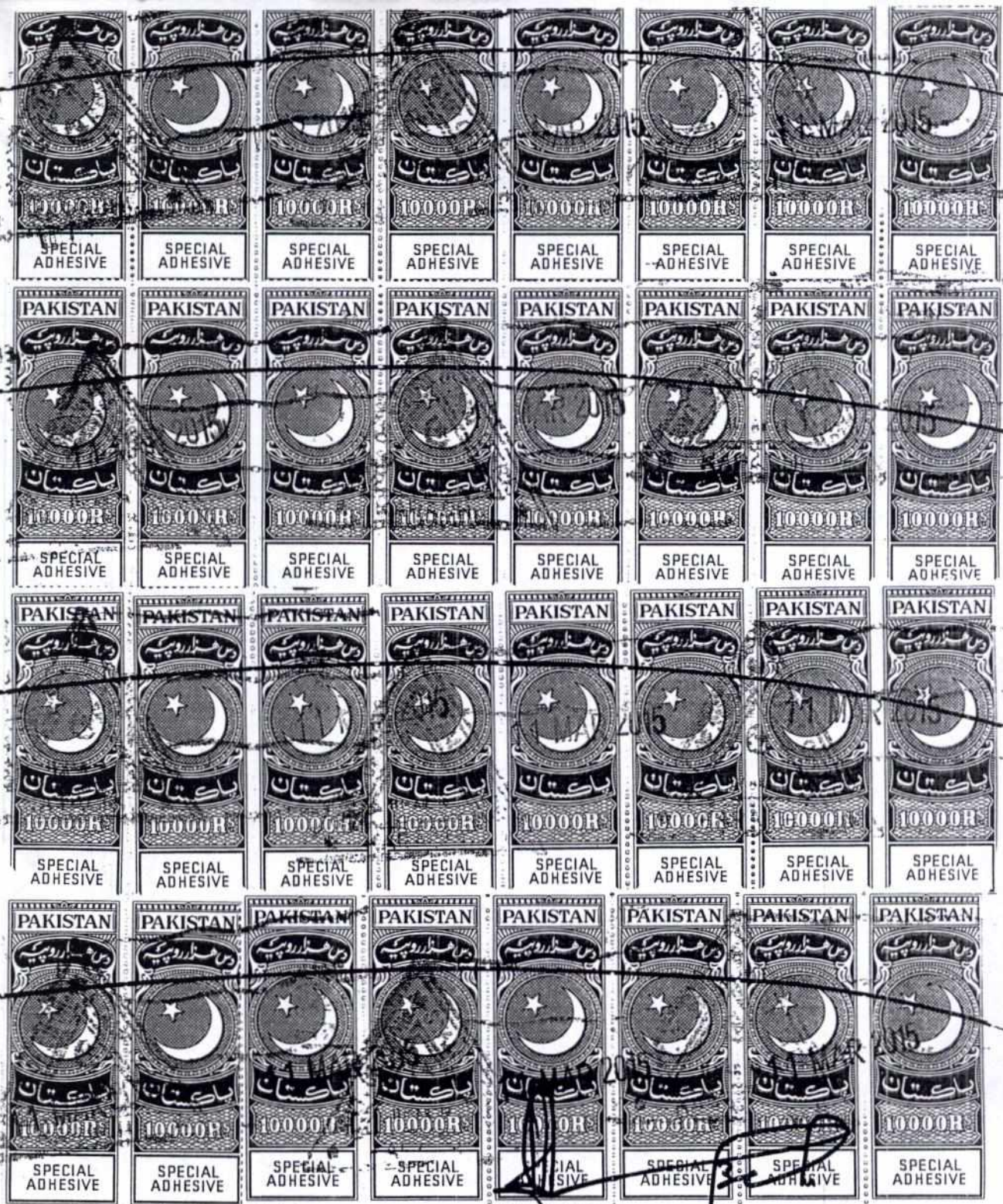
A.A. Jilani
13/3/15



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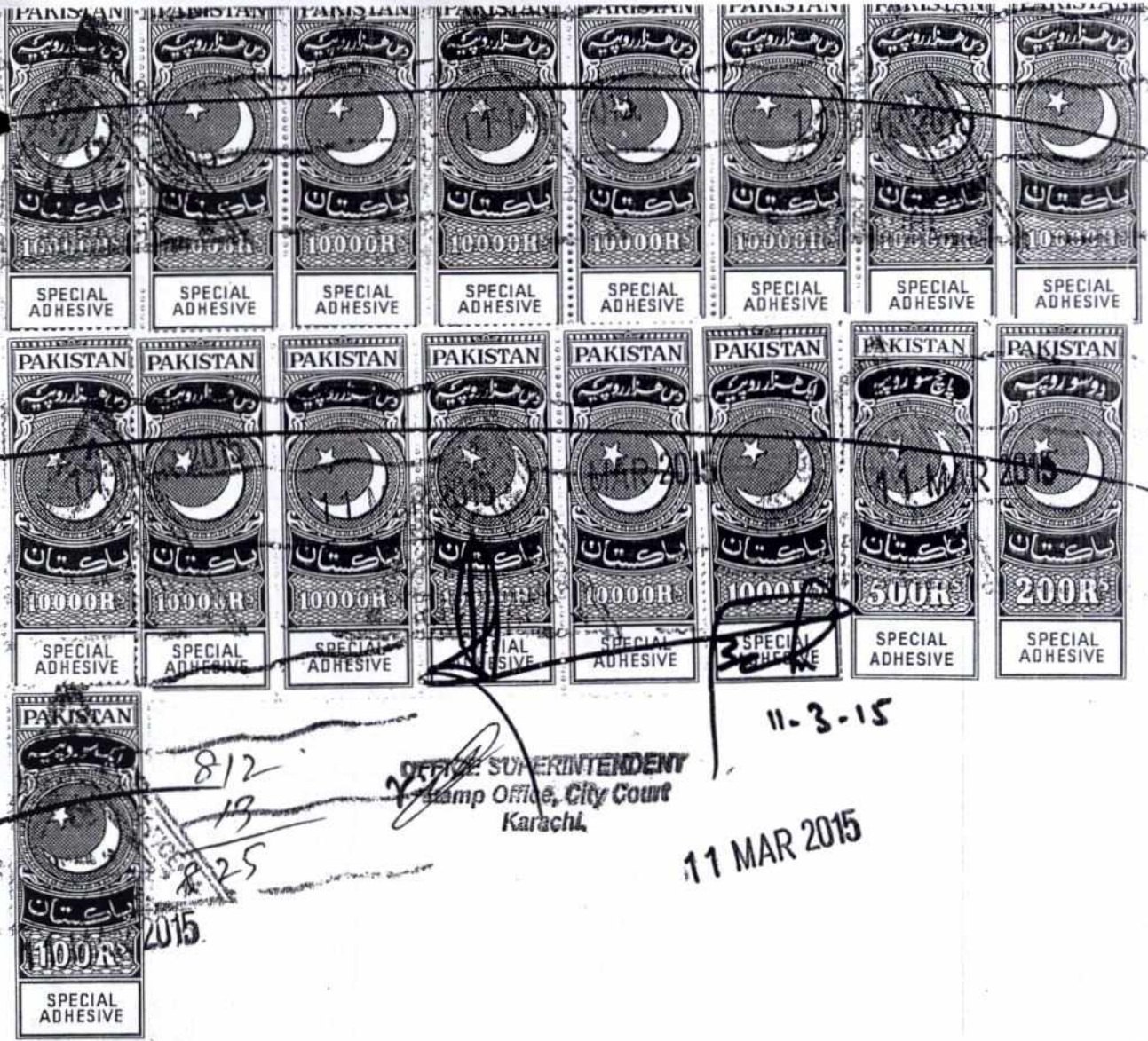
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month and year first before written in accordance with their respective laws.



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2015

OFFICE SUPERINTENDENT
Stamp Office, City Court
Karachi

11-3-15

11 MAR 2015

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Signature of Contractor
Ahmed Ali
(Seal) **AHMED ALI
DIRECTOR**



Signature of Procuring Agency
Danish Saeed
(Seal) **Director - General
Sindh Coal Authority
Government of Sindh
Karachi.**

Signed, Sealed and Delivered in the presence of:

Witness: Akram Khan MP
(Name, Title and Address)
Umeed & Co



Witness: Engr. Hassan Ali Memon
(Name, Title and Address)
**SINDH COAL AUTHORITY
GOVERNMENT OF SINDH**



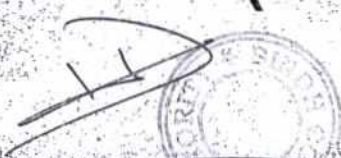
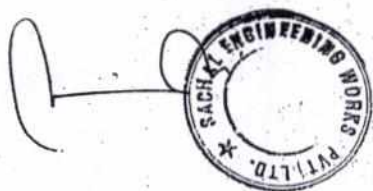
GOVERNMENT OF SINDH



SINDH COAL AUTHORITY

ENERGY DEPARTMENT
SINDH COAL AUTHORITY

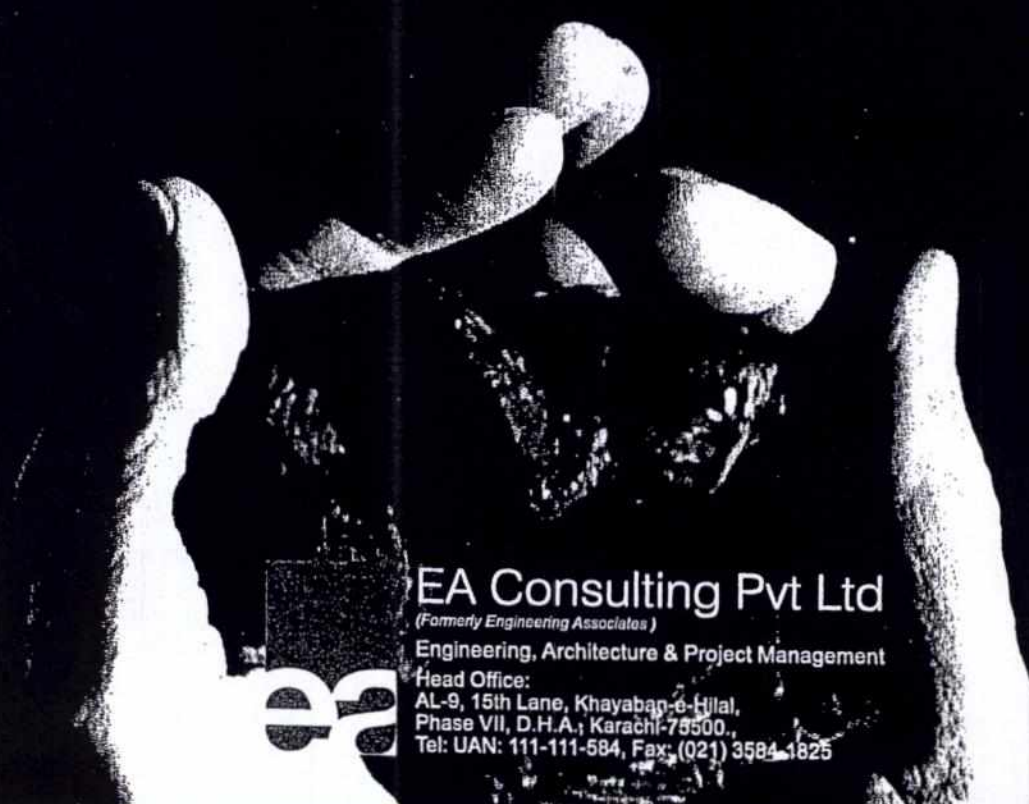
Bid Document (Price Bid)



Construction of 4-Lane Bridge Over River
Indus on Thatta - Sujawal Road
on EPC/Turnkey Basis

Contract Package # SCA/Phase-1/CP-VII

Gold is COAL



EA Consulting Pvt Ltd

(Formerly Engineering Associates)

Engineering, Architecture & Project Management

Head Office:

AL-9, 15th Lane, Khayaban-e-Hilal,

Phase VII, D.H.A., Karachi-75500.

Tel: UAN: 111-111-584, Fax: (021) 3584-1825



SINDH COAL AUTHORITY

BID DOCUMENTS

FOR

**Construction of 4-Lane Bridge Over River Indus including Approach
Roads on Thatta – Sujawal Road on EPC/Turnkey Basis**

CONTRACT PACKAGE # SCA/Phase-1/CP-VII

PRICE BID

Tender issued to M/s *Sachal Engineering Works*
vide P.O # *27591024* dated *08-12-14*
of BOP *Shahrah-e-Jafar, Orkhi*

1/10
Director General
Sindh Coal Authority
Government of Sindh
Karachi.

Accountant
Sindh Coal Authority



FORM OF PRICE BID

Bid Reference No. SCA/Phase-I/CP-VII
(Name of Contract/Work)

To:

The Director General,
Sindh Coal Authority
Govt. of Sindh, Karachi.

1. Having examined the bidding documents including Instructions to Bidders, Bidding Data, and Conditions of Contract, Specifications, Drawings and Schedule of Prices and Addenda Nos. 01 (Minutes of Pre-bid meeting) for the execution of the above-named work, we/I, the undersigned, offer to execute and complete the work and remedy any defects therein in conformity with the Conditions of Contract, Specifications, Drawings, Schedule of Prices and Addenda for the sum of Rs. 2,750,590,313/- Rupees Two thousand Seven (Rupees hundred fifty millions, five hundred ninety thousand or such other sum as may be ascertained in accordance with the said conditions three hundred thirteen.
2. We/I understand that all the Appendices attached hereto form part of this bid.
3. As security for due performance of the undertakings and obligations of this bid, we/I submit herewith a bid security in the amount of Rupees Thirty Millions (Rs. 30,000,000/-) drawn in your favour or made payable to procuring agency and valid for a period of 100 days beginning from the date, bid is opened.
4. We/I undertake, if our bid is accepted, to commence the works and to complete the whole of the works comprised in the contract within the time stated in Appendix-A to Bid.
5. We/I agree to abide by this bid for the period of 100 days from the date fixed for opening the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Agreement is prepared and executed, this bid, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We do hereby declare that the bid is made without any collusion, comparison of figures or arrangement with any other bidder for the works.
8. We understand that you are not bound to accept the lowest or any bid you may receive.
9. We undertake, if our/my bid is accepted, to execute the Performance Security referred to in Clause 4.2 of Conditions of Contract for the due performance of the Contract.

2



A. A. Qureshi
ENGR. AHMED ALI QURESHI
DIRECTOR
SACHAL ENGG. WORKS (PVT.) LTD.

10. We confirm, if our bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the procuring agency. (Please delete this in case of Bid form a single bidder)

in the capacity of Director duly authorized to sign Bids for and on behalf of _____ Dated this 26th day of December, 2014.

Signature: A. A. Qureshi ENGR. AHMED ALI QURESHI
DIRECTOR
SACHAL ENGG. WORKS (PVT.) LTD.

Sachal Engineering Works (Pvt) Ltd

(Name of Bidder in Block Capitals)

(Seal)

Address: Office No. 507, 5th floor, Business Avenue
Shahrah-e-Faisal, Karachi.

Witness:

Signature: Naim Ahmed Khan

Name: Naim Ahmed Khan

Address: Plot No. 59-E, Street No. 7, Sector I-10/3
Islamabad.

Occupation: Manager Construction. SEW.



ACTIVITY SCHEDULE & SCHEDULE OF PRICES
PREAMBLE

- 1 The Activity Schedule shall be prepared by the bidder in conjunction with the bidding documents including Employer's Requirements.

The Activity Schedule is for the purpose of pricing by the bidder and does not restrict the method of working of the successful bidder subject to conformance with the provisions of bidding documents including Employer's Requirements. Prices in the Activity Schedule shall not be altered due to change in the method of work during design/execution.

The bidder shall provide the complete Schedule of Prices in the format provided hereunder, which will constitute the Agreement Price for the Principal Activities.

The prices entered in the Schedule of Prices/Activity Schedule shall, except insofar as it is otherwise provided under the contract include all costs of contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the contract. Furthermore all duties, taxes and other levies payable by the contractor under the contract shall be included in the prices and the total bid price submitted by the bidder.

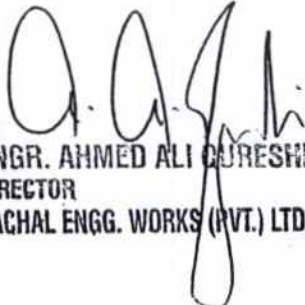
- 2 It will be assumed that any activity or item (except river training works) left without a price entered against it has the price of that activity or item included elsewhere in the Schedule of Prices. After the submission of bid no alteration will be made to the Schedules of Prices or Activity Schedule to rectify any unpriced activities or items.

For river training works, if required, the cost and payment schedule shall be mutually agreed by the Parties.

For Electrification of Bridge, if required, the cost and payment schedule shall be mutually agreed by the Parties. However provision of duct in central barrier should be provided by the contractor.

The value of work executed shall comprise the value of completed activities in the Activity Schedule.

The bidder should note that the Principal Activities will contain items of ancillary work and the price entered by the bidder relate to all activities within the Principal Activity. The price may thus not be payable for specific item(s) unless the Activity Schedule provides sufficient detail.


ENGR. AHMED ALI QURESHI
DIRECTOR
SACHAL ENGG. WORKS (PVT.) LTD.

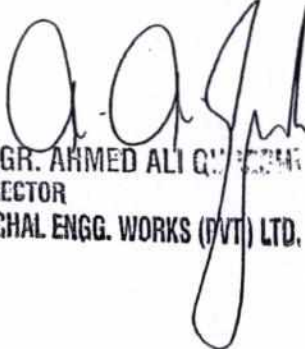


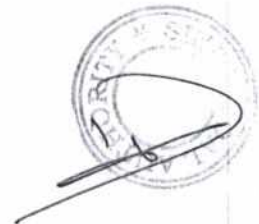
- 3 In the event that the price of activity / sub activity is unbalanced, the same shall be subjected to appropriate adjustment by the Engineer such that the total price remains same. Notwithstanding above, the Engineer shall have the right to fix prices of un-priced activity by adjusting the prices of priced activities while keeping the overall price same to check front loading of bid by any bidder.

The amounts entered in the Schedule of Prices/Activity Schedule will be used for calculation of interim payments due in accordance with Clause 14 of the Conditions of Contract, and also for valuing variations, if applicable in accordance with the Contract.

The Engineer shall not certify payments for work other than against completed items in the Activity Schedule. Payments will be made for activities that are fully complete in accordance with the completion criterion given in the Activity Schedule. No partial payments will be made for activities that are partially complete, except for those stated below. Any application for payment made by the Contractor under the provisions of Clause 14 of the Conditions of Contract shall include a list of the activities completed, for which payment is requested.

All activities/items are to be priced in Pakistan Rupees (PKR) only.


ENGR. AHMED ALI QURESHI
DIRECTOR
SACHAL ENGG. WORKS (PVT) LTD.



Initials of Signatory to Bid:.....

SUMMARY OF COST				
Schedule	Title	Unit	Weightages of Principal Activities	Price in PKR
	WORK ITEMS			
1	Earthworks	LS	9.87	271,500,000
2	Subbase and base courses	LS	0.87	24,000,000
3	Surfacing	LS	2.44	67,000,000
4	Structures Indus River Bridge	LS	-	-
	a. Structures - sub-structure of Indus River Bridge	LS	52.23	1,436,500,000
	b. Structures - super-structure of Indus River Bridge	LS	28.83	793,000,000
5	Drainage & Erosion Control Works	LS	2.76	76,000,000
6	Ancillary works	LS	1.96	54,000,313
7	Engineer's Facilities	LS	1.04	28,590,000
	GRAND TOTAL			Rs 2,750,590,313/-
	Bid Price(Carried forward to Form of Bid)		100.00%	

Schedule of Prices/Activity Schedule

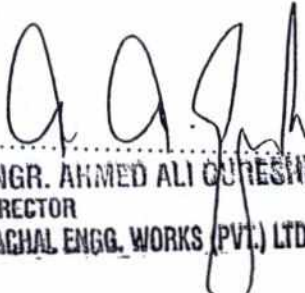
ACT. REF	PRINCIPAL ACTIVITIES	Sub Act. REF	Sub-Activity	Completion Criterion	Price (Rs) (Million)
	<i>Attached on separate sheets</i>				

Notes:

- The bidder is to expand the table of Schedule of Prices/Activity Schedule by providing and pricing all the Principal and Sub Activities with completion criteria e.g. for clearing & grubbing Km 0+000 to Km 1+000 etc. The Schedule of Prices & Activity Schedule shall be adjusted with completion criteria by the Engineer without altering the total Contract Price.
- The principal activities are those which are provided in table of Summary of Cost.
- Each Principal Activity may be divided into number of sub-activities as per the requirement e.g. Earthworks can be divided into (i) Clearing & Grubbing (ii) Cutting and removal of trees (iii) Stripping (iv) Compaction of NSL (v) Excavation (vi) Formation of Embankment (vii) Improved Sub-grade etc.
- The Schedule of Payment shall be agreed/accepted by the Engineer based on Schedule of Prices/Activity Schedule.

Initials of Signatory to Bid:.....



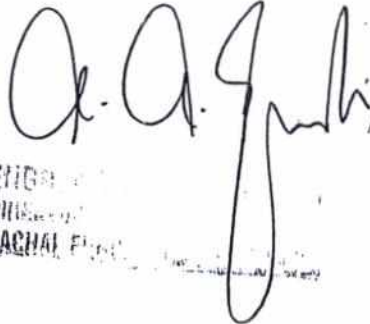

 ENGR. AHMED ALI QURESHI
 DIRECTOR
 SACHAL ENGG. WORKS (PVT.) LTD.

Appendix-D to Bid

SUMMARY OF COST

SCHEDULE	TITLE	UNIT		PRICE IN PKR
	WORK ITEMS		WEIGHTAGE OF PRINCIPAL ACTIVITES	
1	Earthworks	LS	9.87	271,500,000
2	Subbase & Base Courses	LS	0.87	24,000,000
3	Surfacing	LS	2.44	67,000,000
4	Structures of Indus River Bridge	LS	0.00	
	a. Structures - Sub structure of Indus River Bridge	LS	52.23	1,436,500,000
	b. Structures - Super structure of Indus River Bridge	LS	28.83	793,000,000
5	Drainage & Erosion Control Works	LS	2.76	76,000,000
6	Ancillary Works	LS	1.96	54,000,313
7	Engineer's Facilities	LS	1.04	28,590,000
	GRAND TOTAL			2,750,590,313
	Bid Price (Carried forward to Form of Bid)	%	100.00	



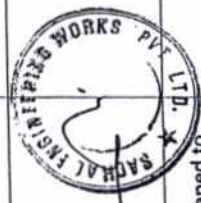

 ENGR
 DIRECTOR
 TECHNICAL STAFF

SCHEDULE OF PRICES / ACTIVITY SCHEDULE

ACTIVITY REFERENCE	PRINCIPAL ACTIVITIES	SUB-ACT. REF	SUB-ACTIVITY	COMPLETION CRITERION	PRICE (Rs)
1	Earthwork & Design Requirement	1.1	Detailed Survey Topographic Survey, Traverse Survey, Permanent Reference Monuments, Utility Survey, Contour Survey Plan, Survey for Land Acquisition, Survey for Buildings in ROW.	Land Acquisition Folder, prepared & Submitted	2,000,000.00
		1.2	Hydrological Study Hydraulic Study of River Flow, River Training Works Study, TOR for Hydraulic Model Study, Scour Estimates & Type of Bed Material, Riverine Survey.	Hydraulic Model Study prepared & submitted	18,000,000.00
		1.3	Soil & Geotech Study Geotech Study for Bridge Foundations & Approach Road Design. Confirmatory Bore Holes 60m deep & laboratory Testing Samples.	Bore logs & Laboratory Test Reports submitted.	3,000,000.00
		1.4	Design of Bridge & Approach Roads Structural Design of Substructure & Superstructure. Geometric & Pavement Design of Approach Roads.	Designs & Drawings submitted as specified.	8,500,000.00
		1.5	Environment Impact Assessment Carryout EIA to study effect of work on surroundings.	Submission of EIA complete report.	1,000,000.00



		1.6	Clearing & Grubbing, Stripping and Compaction of Natural Ground. The Work consists of removal and disposal of objectionable material like stumps, roots, bushes including trees if any. Thereafter sprinkling water, blading and compaction as specified.	Objectionable Material Removed. Compacted to Specific zone w.r.t. NHA Specification 108.3.1.	14,000,000.00
		1.7	Formation of Embankment, Roadway & Borrow Excavation for Embankment. The work consists of placing and compaction of specified embankment material in layers within the roadway area as shown on drawing. The activity also includes excavation in existing roadway and to fill in the area shown on drawing and as directed by the Engineer.	Specified & Approved Material, Shaped to Drawing compacted to specified zone w.r.t. NHA Specification 108.3.1.	220,000,000.00
		1.8	Improved Subgrade The Subgrade work extends to the full width of the road bed including the shoulders. The material conforming to the specification well mixed placed in two layers 150mm each compacted to 95% MDD as specified on drawing.	Specified & Approved Material, Shaped to Drawing compacted to NHA Specification 110.3.4.	5,000,000.00
2	Subbase & Base Courses	2.1	Granular Subbase in Carriageway The material consisting of natural or processed aggregates such as gravel, sand or stone fragment free form organic matter tested and approved quality placed in layers and compacted as specified and as shown on drawing in the carriageway.	Specified & Approved Material, Shaped to Drawing compacted to 98% MDD.	4,000,000.00
		2.1.1	Granular Subbase in Shoulders Same as Sub Activity 2.1 but to be executed in shoulders.	Specified & Approved Material, Shaped to Drawing compacted to 98% MDD.	2,000,000.00

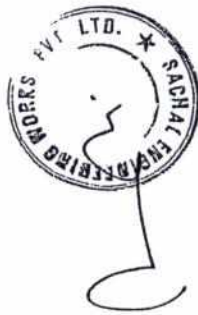



		2.2	Crushed Aggregate Base in Carriageway	Specified & Approved Material, Shaped to Drawing compacted to 100% MDD.	14,000,000.00
			The material consisting of crushed, durable gravel rock or stone fragments, free from deleterious substances, tested and approved quality placed in layers and compacted as specified and as shown on drawing in the carriageway.		
		2.2.1	Crushed Aggregate Base in Shoulders	Specified & Approved Material, Shaped to Drawing compacted to 100% MDD.	4,000,000.00
			Same as Sub Activity 2.2 but to be executed in shoulders.		
3	Surfacing	3.1	Prime Coat & Asphalt Base Course on Carriageway	Specified Prime Coat Material, Applied at Tested Rate. Asphalt Base of Approved JMF, Placed to Drawing, compacted to 98%.	38,000,000.00
			The work first consists of spraying approved bituminous priming material at designated rate on finished and approved aggregate base surface. After the primer dries the surface may be cleaned. The asphalt hot mix conforming to approved JMF brought to site and placed by electronically controlled paver and compacted by steel and pneumatic tired rollers conforming to specification as shown on drawing on the carriageway.		
		3.2	Tack Coat & Asphalt Wearing Course in Carriageway	Specified Tack Coat Material, Applied at Tested Rate. Asphalt Wearing Course of Approved JMF, Placed to drawing, compacted to 98%.	15,000,000.00
			The work first consists of spraying approved bituminous tacking material at designated rate on finished and approved asphaltic base course. Later the asphalt hot mix conforming to approved JMF brought to site and placed by electrically controlled paver and compacted by steel and pneumatic tired rollers conforming to specification as shown on drawing on the carriageway.		



			3.3	Wearing Course on Bridge	Specified Take Coat Material, Applied at Tested Rate on Bridge. Asphalt Wearing Course of Approved JMF, Placed to drawing, compacted to 98%.	12,000,000.00
				The work first consists of spraying of approved bituminous tacking material at designated rate on bridge deck. Later the asphalt hot mix conforming to approved JMF brought to site and placed by electronically controlled paver and compacted by steel and pneumatic tired rollers while keeping the match line with the Expansion Joints already mounted in position.		
			3.4	Surface Treatment on Shoulders	The rate of application of bituminous material and cover aggregate meet the specification. The work is done as shown on drawings.	2,000,000.00
				Specified Prime Coat Material, Applied at Tested Rate on Shoulders. Designated Applications of Bituminous Sprays followed by subsequent covering by specified aggregate at designated rate rolled to satisfaction of the Engineer as shown on drawing.		
4	Structures Indus River Bridge					
4a	Sub structure of Indus Bridge	4.a1	Pile Boring & Casting upto Ground Level	Collected concrete Samples meet specified strength. Pile integrity test for Bore length and Diameter as directed by the Engineer.	1,195,000,000.00	
				The work consists all operations in connection with boring of designated diameter in all types of soil including rock and boulders to the depth as shown on drawing. The work also involves placing in position approved reinforcement cage Pouring specified concrete by tremie as standard engineering practice upto the ground level. Pile Integrity Test showing soundness of concrete poured in bored pile to be conducted as specified.		



	4.a2	Shaft Casting upto Bottom of Transom	Collected concrete Samples meet specified strength. The shaft conforms the shape shown on drawing.	118,500,000.00
		<p>The work consists of placing rebar's in conformance to approved bar bending schedule. placing formwork in firm position. pouring specified concrete over cleaned concrete surface of pile while vibrating to density. The work further involves stripping of formwork and curing of concrete as designated.</p>		
	4.a3	Transom Casting	Collected concrete Samples meet specified strength. The transom conforms the shape shown on drawing.	116,000,000.00
		<p>The work consists of placing rebar's in conformance to approved bar bending schedule. Placing formwork in firm position. Pouring specified concrete while vibrating to density. The work further involves stripping of formwork and curing of concrete as designated.</p>		
	4.a4	Abutment Casting	Collected concrete Samples meet specified strength. The Abutment conforms the shape shown on drawing.	7,000,000.00
		<p>The work consists of placing in position rebar's in conformance to approved bar bending schedule. Erecting formwork in firm position to desired shape. Pouring specified concrete in the formwork while vibrating to density. The work may include Lean Concrete while casting on ground. The work also involves construction of sub structural members in different stages to meet the construction requirement as shown on drawings. The concrete shall be cured after stripping of the formwork, all work done to the standard engineering practice.</p>		

4b	Superstructure of Indus Bridge	4. b1	Casting of Prestressed Girder	Collected concrete Samples meet specified strength. Check the line and level of the girder conform the drawing.	551,000,000.00
			<p>The work consists of preparing well leveled casting strip and placing there upon rebar's in conformance to approved bar bending schedule. Placing sheaths to designed profile and passing the specified Prestressing strands through the sheath. Erecting one face of formwork. checking the dimensions to meet the design. Later on erecting the other face of formwork . Closing the ends and making the form firm in position. Mounting external vibrators on the form. pouring specified concrete mix and vibrating internally & externally to density concrete. Cure the concrete in standard way and strip the formwork. keep the girder in upright position by proper bracing till launching.</p>		
		4. b2	Prestressing & Grouting of Girder	The stressing meets the designated pulling force. The sheaths are grouted and ends closed.	61,000,000.00
			<p>The work consists of pulling the Prestressing strands by jacks to desired force. Locking the ends with cones. washing the sheath and injecting specified grout. Closing the ends by mortar.</p>		
		4. b3	Placing Bearing Pads and Launching of Girder in Position	The girder placing is precisely checked and it is temporarily braced in position	47,000,000.00
			<p>The work consists of procuring and placing specified and approved elastomeric bearing pads in position over the transoms. The prestressed girder is then carefully brought to site and placed over the bearing pads.</p>		



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	4. b4	Casting & Stressing Diaphragms	The stressing meets the designated pulling force. The concrete samples meet the specified strength.	26,00,000.00
		The work consists of binding reinforcement of two of the either girders to be tied together. Additional rebar's as shown on drawings to be added. place the sheath in position and pass prestressing tendons. Place the formwork as shown on drawing. Pour specified concrete while vibrating. Strip the form and cure. Once complete set of diaphragms is thus ready for stressing. Pull the stressing tendons to specified force, grout and close the ends.		
	4. b5	Casting Deck Slab	Tests on concrete Samples meeting specified strength. The concrete shape conforms the drawing.	78,000,000.00
		The work consists of straightening the extending rebar's from the adjoining girder rebar's add additional bars as shown on drawing. Place bottom shuttering in position making it firm there. Placing sheath and passing Prestressing tendons. Pour specified concrete while vibrating and shaping. Cure in approved way. Remove the bottom shuttering.		
	4. b6	Prestressing & Grouting of Deck Slab	The pull for prestressing strands meet the designated force. The ends of prestressing assembly are closed with mortar.	13,000,000.00
		The work consists of pulling the Prestressing strands by jacks to desired force. Washing the sheath and injecting specified grout and closing the ends.		
	4. b7	Approach Slab Casting	Tests on concrete Samples meeting specified strength. The concrete shape conforms the drawing.	1,000,000.00
		The work consists of preparing the compacted surface for lean concrete. Pouring and curing lean concrete. Placing rebar's in conformance to approved bar bending schedule. Pouring approved concrete mix while vibrating, finishing and shaping. Cure in approved way.		

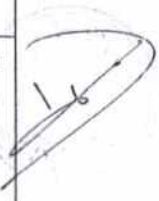


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		4. b8	Steel Expansion Joints	Manufacturer's Certificate conforms the specifications. The joints are precisely placed as shown on drawing.	16,000,000.00
			The work consists of imported expansion joints placing in position as shown on drawing. Mounted firmly and tied to deck rebar's. Welded to additional rebar's as shown on drawing. Pouring specified concrete while vibrating to density. Finish properly to match both faces of the joint with the drawing. Cure in approved way.		
5	Drainage & Erosion Control Works	5.1	Toe wall Excavation & Fill with Riprap Class B	The toe wall constructed conforming to drawing. The gaps between the stones filled with pail.	10,000,000.00
			The work consists of excavating the trench to the dimensions shown on drawing. Placing the specified riprap stones to fill the trench and fill the gaps with the spall.		
		5.2	Concrete Dyke & Surface Water Chute	Line and level conforms the drawing.	1,000,000.00
			The work consists of trimming and shaping the embankment slope as shown on drawing. Placing the specified filter material thereafter place specified Pitching Stones. GROUT the pitching with mortar. Place the concrete class B in the forms as shown on drawing. Cure the works in approved way.		
		5.3	Filter Material on Slopes	The concrete samples meet the specified strength. The shape conforms the drawings.	10,000,000.00
			The work consists of trimming and shaping the embankment slope as shown on drawing. Light sprinkling of water and placing specified filter material as shown on drawing.		



			5.4	Class B Riprap on Slopes Carefully placing the specified riprap stones over the filter material as designed. The gaps between the stones are filled with spall.	The material conforms the specification and shaped as designed.	55,000,000.00
6	Ancillary Works	6.1	Median Barrier on Road The work consists of preparing bed for lean concrete and fill specified lean mix, shape and cure the concrete. Place rebar in approved bar bending schedule. Erect formwork and pour specified concrete while vibrating to densify. Provide joints at 5-6m intervals. Cure the concrete in approved way.	The concrete samples meet the specified strength. The shape conforms the drawing.	5,000,000.00	
		6.1.1	Median Barrier on Bridge The work consists of shaping the rebar's extending from the deck to approved bar bending schedule. Tie additional rebar's shown in schedule. Erect formwork and pour specified concrete while vibrating to densify. Provide joints at 5-6m intervals. Cure the concrete in approved way.	The concrete samples meet the specified strength. The shape conforms the drawing.	12,000,000.00	
		6.1.2	End Barriers on Bridge The work similar to sub activity 6.1.1 except the difference in shape only.	Same as described in 6.1.1	20,000,000.00	
		6.2	Guard Rails The work consists of procuring the specified guard rails conforming to the shape shown on drawing. Driving/Erecting the posts in position, bolting the beam as shown on drawing.	Manufacturer's Certificate conforms the specifications. The work done conforms the drawing.	12,000,000.00	



			6.3	Traffic Signs, Pavement Marking, Cat Eyes & KM Posts. The work consists of procuring, assembling, spraying, mounting and casting as the case may be with respective items stated above, all conforming to specifications, drawings and as directed by the Engineer. The position/Location as shown on drawing.		Manufacture's Certificate conforms the specifications. The work done conforms the drawing and as directed by the Engineer.	5,000,313.00
7	Engineer's Facilities	7a1	Provide Office as specified		The Office facility is functional, equipped and furnished to the satisfaction of the Engineer.	1,500,000.00	
		7a2	Provide Laboratory as specified	The work consists of providing the Engineer's Office equipping, furnishing and energizing it as listed in Item SP-3.	The Laboratory facility is functional, equipped and furnished to the satisfaction of the Engineer.	3,000,000.00	
		7a3	Provide Housing as specified	The work consists of providing the Engineer's Central Laboratory equipping, calibrating, furnishing and energizing it as listed in Item SP-5.	The Housing facility is functional and furnished to the satisfaction of the Engineer.	1,000,000.00	
		7a4	Provide Vehicles as specified	The work consists of providing the Engineer's Housing furnishing and energizing it as listed in Item SP-4.	The Vehicles are functional to the satisfaction of the Engineer.	10,700,000.00	
				The work consists of providing the specified Vehicles as listed and designated in Item SP-8.			



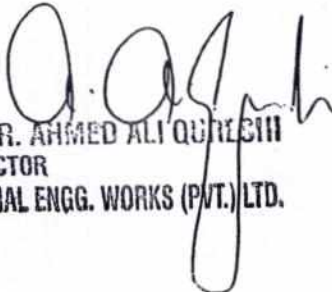
										1,200,000.00
7a5				Provide Survey Equipment as specified The work consists of providing the specified Survey Equipment and calibrating as specified in Item SP-7.				The Survey Equipment provided to the satisfaction of the Engineer.		
7b1				Running & Maintaining Office The work consists of running and maintaining the Engineer's Office in all respects including repair and replacement of any item and the supply of consumables as stated in Item SP-6.				The Office facility is furnished to the satisfaction of the Engineer.		1,800,000.00
7b2				Running & Maintaining Laboratory The work consists of running and maintaining the Engineer's specified Laboratory in all respects including repair and replacement of any item and the supply of consumables as stated in Item SP-6.				The Laboratory is furnished to the satisfaction of the Engineer.		540,000.00
7b3				Running & Maintaining Housing The work consists of running and maintaining the Engineer's Housing in all respects including repair and replacement of any item and the supply of consumables as stated in Item SP-6.				The Housing Facility is furnished to the satisfaction of the Engineer.		2,700,000.00
7b4				Running & Maintaining Vehicles The work consists of running and maintaining the specified Engineer's Vehicles in all respects including repair and replacement of any item and the supply of consumables as stated in Item SP-8.				The Engineer's Vehicles are functional to the satisfaction of the Engineer.		5,400,000.00
7b5				Running & Maintaining Survey Equipment The work consists of running and maintaining the specified Survey Equipment in all respects including repair and replacement of any item and the supply of consumables as stated in Item SP-7.				The Laboratory is functioning to the satisfaction of the Engineer.		750,000.00

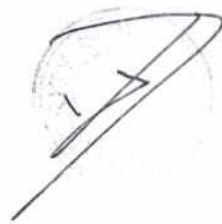


ESTIMATED PROGRESS PAYMENTS (SAMPLE)

Bidder's estimate of the value of work which would be executed by him during each of the periods stated below, based on his Programme of the works and the Rates in the Bill of Quantities, expressed in Pakistani Rupees:

Quarter/ Year/ Period	Amounts (in million)
1	2
1st Quarter	450.00
2nd Quarter	675.00
3rd Quarter	580.00
4th. Quarter	495.00
Last Quarter	550.590
/	/
/	/
/	/
/	/
Bid Price	Rs 2,750.590 Millions .


 ENGR. AHMED ALI QURESHI
 DIRECTOR
 SACHAL ENGG. WORKS (PVT.) LTD.



Initials of Signatory to Bid:.....

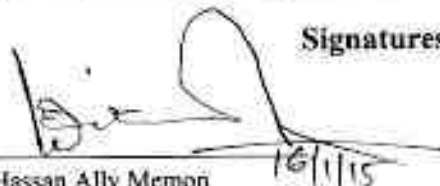
Bid Evaluation Report

1. Name of Procuring Agency: Sindh Coal Authority, Energy Department, GoS
2. Tender Reference No: SCA/Phase-1/CP-VII
3. Tender Description/Name of work/item: Construction of 4-Lane Bridge Over River Indus along Thatta - Sujawal Road
4. Method of Procurement: Single Stage Two Envelope procedure (Prequalification already carried out, Prequalification Evaluation Report already submitted to SPPRA)
5. Tender Published: Bidding was opened to prequalified firms only. Letters issued to prequalified firms were provided to SPPRA
6. Total Bid documents Sold: Three (03)
7. Total Bids Received: Three (03)
8. Technical Bid Opening date: 8th January 2015 (Technical Evaluation Report already submitted to SPPRA)
9. No. of Bid technically qualified: Three (03)
10. Bid(s) Rejected: Nil
11. Financial Bid Opening date: 12th January 2015

12. Bid Evaluation Report:

S No	Name of Firm or Bidder	Cost offered by the Bidder	Ranking in terms of cost	Comparison with Estimated cost	Reasons for acceptance/rejection	Remarks
0	1	2	3	4	5	6
1.	M/s Sachal Engineering & Works (Pvt) Ltd	Rs. 2,750,590,313	1st	8.31% below	Lowest Evaluated Bid, (Technically Qualified & submitted lowest price bid)	Recommended for award of Contract
2.	M/s Usmani Associates	Rs. 2,876,308,327	2nd	4.12% below	High price	
3.	M/s Ghulam Rasool & Company (Pvt) Ltd	Rs. 2,991,638,000	3rd	0.28% below	High price	

Signatures of the Members of the Committee.



Hassan Ally Memon
Chief Engineer, SCA
Member, PC



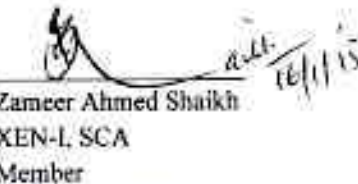
Altaf Hussain Shah
Superintending Engineer, SCA
Member



Muhammad Qasim (SO IV)
Finance Dept., GOS
Member



Ahmed Ali Shah
XEN, PBD-III, GOS
Member



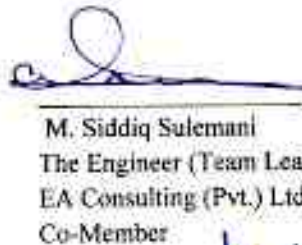
Zameer Ahmed Shaikh
XEN-I, SCA
Member



Niaz Ali Mughal
DAO, SCA
Member



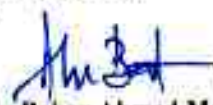
Dr. Abdul Jabbar Bangi
Professor
NED University
Co-Member



M. Siddiq Sulemani
The Engineer (Team Leader)
EA Consulting (Pvt.) Ltd.
Co-Member



Zeeshan Hassan Yusuf
Contract/Procurement Engr.
EA Consulting (Pvt.) Ltd.
Co-Member



Abu Bakar Ahmed Madani
Chairman/Additional Secretary
Energy Department, GoS, Karachi