

TENDER DOCUMENTS FOR
HIRING THE SERVICES OF PCC CONTRACTOR FOR
SUPPLY / INSTALLATION / CIVIL FOUNDATIONS FOR MISCELLANEOUS
EQUIPMENTS & PLANT BUILDING WORKS FOR MELA DEVELOPMENT PROJECT
(PCC)

TENDER EQUITY NO. PROC-FC/CB/PROJ/MELA-3368/2018)

ADDENDUM NO. 3

This Addendum No. 3 is hereby made a part of the subject Tender Document and is being issued to modify, explain and/or correct the Tender Document. This addendum, including all articles and attachments listed below, shall be taken into account in preparing the Bid for the subject Tender.

Document Reference	Description of Amendment/Addition
1) 165-2-BQC-001	Rev.0 of 165-2-BQC-001 attached with the original tender (Vol-II) shall be superseded by Rev.1 of the same document, enclosed as Attachment-I to this Addendum No. 3.
2) 165-2-BQC-002	Rev.1 of 165-2-BQC-002 attached with the original tender (Vol-II) shall be superseded by Rev.2 of the same document, enclosed as Attachment-II to this Addendum No. 3.
3) 165-2-BQC-001, Rev. 1 165-2-BQC-002, Rev. 2	Bill of Quantities (Excel sheets) can be downloaded from the OGDCL website enclosed as Attachment-III to this Addendum No. 3. Bidder to note that Bill of quantities are protected files bidder to fill price only in unprotected cells, un protection of BOQ by bidder lead to disqualification.

ATTACHMENT – I

DESCRIPTION OF BILL OF QUANTITIES FOR
CIVIL WORKS



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OIL & GAS DEVELOPMENT COMPANY LTD.

MELA DEVELOPMENT PROJECT

DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS



Rev.	Date	Description	Prepared By	Checked By	Approved By
1	24-07-2018	Re-issued for Tender	MSH	SS	SMM
0	05-06-2018	Issued for Tender	MSH	SS	SMM

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
1.0	<u>EARTH WORKS</u>					
1.1	<u>EXCAVATION</u> EXCAVATION FOR FOUNDATIONS TO THE REQUIRED DEPTH WHEREVER REQUIRED AS SHOWN ON DRAWINGS IN ALL KINDS OF SOIL DRY OR WET, HARD, AVERAGE OR SOFT INCLUDING DEWATERING AND SHORING IF REQUIRED, BACKFILLING USING EXCAVATED SOIL IN 150 mm COMPACTED THICKNESS TO 95% MODIFIED PROCTOR RELATIVE DRY DENSITY AND DISPOSAL OF EXCESS MATERIAL AT DESIGNATED PLACES COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
1.2	<u>IMPORTED WELL GRADED COARSE SAND FILLING (INSIDE RING WALL)</u> SUPPLYING, FILLING AND COMPCTING APPROVED WELL GRADED COARSE SAND WHEREVER SPECIFIED IN THE DWGs. INCLUDING SPREADING AND COMPACTING. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
1.3	<u>CUTTING</u> CLEARING, GRUBBING, REMOVING ALL BUSHES, DUNES AND PERFORMING CUTTING WORKS INCLUDING MAKING GRADES AND SLOPES TO ACHIEVE THE PROPOSED FINISH GRADE LEVELS AS SHOWN ON DRAWINGS INCLUDING DRESSING, WATERING AND CONSOLIDATION BY RAMMING AND COMPACTED TO ENGINEER'S INCHARGE SATISFACTION COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS INSTRUCTED BY OWNER'S REPRESENTATIVE/CONSULTANT.	CU.M				
1.4	<u>FILLING</u> CLEARING, GRUBBING AND PERFORMING FILLING WORKS INCLUDING, MAKING GRADES AND SLOPES TO ACHIEVE FINISH GRADE LEVEL AS SHOWN ON DRAWINGS INCLUDING DRESSING, WATERING AND CONSOLIDATION BY RAMMING IN LAYERS NOT EXCEDDING 150 mm THICK TO FULL COMPACTION TO ATTAIN 95% MODIFIED PROCTOR RELATIVE DENSITY AS PER ASTM D 1157. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS INSTRUCTED BY THE ENGINEER.					
i)	USING THE APPROVED CUT SOIL FROM WITHIN THE PLOT LIMITS	CU.M				
ii)	USING APPROVED IMPORTED FILL	CU.M				

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S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
1.5	<u>STONE SOLING</u> SUPPLYING AND LAYING STONE SOLING OF HARD CORE WITH BROKEN STONE OF REQUIRED SIZE UNDER THE FOUNDATIONS AND WHEREVER REQUIRED INCLUDING FILLING VOIDS SPALLS PACKING AND CHIPS OF STONE, WATERING, COMPACTING, RAMMING AND LEVELING, ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
1.6	<u>STONE PITCHING</u> PROVIDING AND LAYING STONE PITCHING TO THE THICKNESS AS MENTIONED ON THE DRAWINGS WITH BROKEN STONE OF REQUIRED SIZE AS IN DYKE / EMBANKMENT WALLS AND WHEREVER REQUIRED INCLUDING FILLING VOIDS AND PACKING WITH SPALLS OF STONE, WATERING, RAMMING AND SURFACE LEVELING, POINTING OF JOINTS WITH 1:4 CEMENT SAND MORTAR. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
1.7	<u>FINE SAND CUSHION</u> PROVIDING AND LAYING FINE SAND CUSHION BELOW HEAVY DUTY PAVERS. COMPLETE IN ALL RESPECT AS PER DRAWINGS, SPECIFICATIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE/ ENGINEER.	CU.M				
1.8	<u>ASPHALT SAND MIX</u> PROVIDING AND APPLYING ASPHALT SAND MIX LAYER 75 mm THICK, ON THE FIRM AND COMPACTED SURFACE INCLUDING TACK COAT @ 0.75 LITRES / SQ.M. ASPHALT COMPACTING WITH ASTM D 946 OR AASHTO M20 PENETRATION GRADE 60 / 70 WITH MIXING PROPORTION OF 6% ASPHALT, 18% CRUSHED STONE (2.5 mm - 5 mm), 66% WELL GRADED SAND AND FINE AGGREGATES (0.07 mm - 0.42 mm). THE ASPHALT SURFACE SHALL BE COMPACTED TO THE REQUIRED SLOPE. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
1.9	<u>CRUSHED STONE / GRAVEL FILLING</u> PROVIDE AND FILL WELL GRADED CRUSHED STONE / GRAVEL AS PER ASTM D-693 SIZE 10 - 20mm WHEREVER SPECIFIED IN THE DWGs. INCLUDING SPREADING AND COMPACTING. THE SURFACE VOIDS SHALL BE FILLED UP WITH FINE AGGREGATE OF GRADATION SIZE NO. 10. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
1.10	<u>BRICK PAVING</u> PROVIDE AND FIXING OF BRICK PAVING (75mm thk.) WITH SAND CUSHION LAYER. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQM				
1.11	<u>FILLING OF SELECT MATERIAL A-3 (AS PER AASTHO SOIL CLASSIFICATION)</u> SUPPLYING, FILLING AND COMPCTING APPROVED A3 MATERIAL WHEREVER SPECIFIED IN THE DWGs. INCLUDING SPREADING AND COMPACTING. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER	CU.M				
2.0	<u>PLAIN & REINFORCED CEMENT CONCRETE</u>					
2.1	<u>C.C 1:4:8 USING O.P CEMENT</u> PROVIDING AND LAYING CEMENT CONCRETE 1:4:8 UNDER FOUNDATIONS WHEREVER REQUIRED WITH APPROVED QUALITY 25mm AND DOWN SIZE STONE OR GRADED GRAVEL AND APPROVED QUALITY OF LOCAL RIVER SAND INCLUDING ALL FORMWORK RODING VIBRATING, LEVELING, COMPACTING, SPREADING AND CURING ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
2.2	<u>REINFORCED CEMENT CONCRETE (3,750 PSI) USING O.P. CEMENT</u> PROVIDING AND LAYING RCC OF 3,750 PSI (CUBICAL STRENGTH) AS MENTIONED IN THE DRAWING & RELATED B.O.Q USING APPROVED QUALITY 20mm MAXIMUM CRUSHED GRADED STONES AND FINE AGGREGATE OF APPROVED QUALITY INCLUDING APPROVED FORMWORK AND ITS REMOVAL, ALL OPERATIONS OF VIBRATING, LEVELING, COMPACTING, SPREADING, CURING AND TESTING ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
2.3	<u>REINFORCED CEMENT CONCRETE (3,750 PSI) USING S.R CEMENT</u> PROVIDING AND LAYING RCC OF 3,750 PSI (CUBICAL STRENGTH) AS MENTIONED IN THE DRAWING & RELATED B.O.Q USING APPROVED QUALITY 20mm MAXIMUM CRUSHED GRADED STONES AND FINE AGGREGATE OF APPROVED QUALITY INCLUDING APPROVED FORMWORK AND ITS REMOVAL, ALL OPERATIONS OF VIBRATING, LEVELING, COMPACTING, SPREADING, CURING AND TESTING ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
2.4	<u>C.C 1:2:4 USING O.P. CEMENT (3000 PSI)</u> PROVIDING AND LAYING 1:2:4 CEMENT CONCRETE WHEREVER REQUIRED INCLUDING FORMWORK, SPREADING, LEVELING AND CURING ETC., COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
2.5	<u>C.C 1:3:6 USING O.P. CEMENT (1500 PSI)</u> PROVIDING AND LAYING 1:3:6 CEMENT CONCRETE WHEREVER REQUIRED INCLUDING FORMWORK, VIBRATING, LEVELING, SPREADING, AND CURING ETC., COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
2.6	<u>C.C 1:2:4 USING S.R CEMENT (3000 PSI)</u> PROVIDING AND LAYING 1:2:4 CEMENT CONCRETE WHEREVER REQUIRED INCLUDING FORMWORK, SPREADING, LEVELING AND CURING ETC., COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
2.7	<u>C.C 1:3:6 USING S.R CEMENT (1500 PSI)</u> PROVIDING AND LAYING 1:3:6 CEMENT CONCRETE WHEREVER REQUIRED INCLUDING FORMWORK, VIBRATING, LEVELING, SPREADING, AND CURING ETC., COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				

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S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
2.8	<u>1:2:4 CEMENT CONCRETE</u>					
a)	<u>FLOOR IN PANELS USING O.P. CEMENT</u> PROVIDING AND LAYING 1:2:4 CEMENT CONCRETE FLOORING IN PANELS. THE FLOORING SHALL BE MADE SAVE FROM SEEPAGE. AN ANTI WATER LOGGING COMPONENT IGAS LIQUID TO BE APPLIED @ 0.3 KG / SQ.M OVER THE EARLIER PREPARED CONCRETE BASE OR RCC SLAB THEN A POLYTHENE SHEET OF 90/100 MICRON WILL BE SPREAD. FINALLY THE 1:2:4 CC FLOORING IN PANEL HAVING STEEL DOWELS TO FASTEN THE SUCCESSIVE PANELS WITH PROPER FINISH, ETC. TO BE LAID. IT SHALL BE COMPLETED IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER. THE FORMWORK, VIBRATING, LEVELING, SPREADING IN CURING ETC. ARE ALSO INCLUSIVE HEREWITH.	CU.M				
b)	<u>1:2:4 IN SITU USING O.P. CEMENT</u> PROVIDING AND LAYING 1:2:4 CEMENT CONCRETE IN SITU WHEREVER REQUIRED. A CHEMICAL COMPOUND SIKALAT LATEX WILL BE MIXED WITH THE CONCRETE TO REDUCE WATER LOGGING. THIS JOB INCLUDES FORMWORK, SPREADING, LEVELING AND CURING ETC., COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
c)	<u>FLOOR IN PANELS USING S.R CEMENT</u> PROVIDING AND LAYING 1:2:4 CEMENT CONCRETE FLOORING IN PANELS. THE FLOORING SHALL BE MADE SAVE FROM SEEPAGE. AN ANTI WATER LOGGING COMPONENT IGAS LIQUID TO BE APPLIED @ 0.3 KG / SQ.M OVER THE EARLIER PREPARED CONCRETE BASE OR RCC SLAB THEN A POLYTHENE SHEET OF 90/100 MICRON WILL BE SPREAD. FINALLY THE 1:2:4 CC FLOORING IN PANEL HAVING STEEL DOWELS TO FASTEN THE SUCCESSIVE PANELS WITH PROPER FINISH, ETC. TO BE LAID. IT SHALL BE COMPLETED IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER. THE FORMWORK, VIBRATING, LEVELING, SPREADING IN CURING ETC. ARE ALSO INCLUSIVE HEREWITH.	CU.M				
d)	<u>1:2:4 IN SITU USING S.R CEMENT</u> PROVIDING AND LAYING 1:2:4 CEMENT CONCRETE IN SITU WHEREVER REQUIRED. A CHEMICAL COMPOUND SIKALAT LATEX WILL BE MIXED WITH THE CONCRETE TO REDUCE WATER LOGGING. THIS JOB INCLUDES FORMWORK, SPREADING, LEVELING AND CURING ETC., COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
2.9	<u>RCC 1:2:4 IN FLOOR USING O.P. CEMENT</u> PROVIDING AND LAYING 1:2:4 RCC FLOORING IN PANELS AS PER DETAILS SHOWN IN DRAWING. IT SHALL BE COMPLETED IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER. THE FORMWORK, VIBRATING, LEVELING, SPREADING IN CURING ETC. ARE ALSO INCLUSIVE HEREWITH.	CU.M				
2.10	<u>RCC 1:2:4 IN FLOOR USING S.R CEMENT</u> PROVIDING AND LAYING 1:2:4 RCC FLOORING IN PANELS AS PER DETAILS SHOWN IN DRAWING. IT SHALL BE COMPLETED IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER. THE FORMWORK, VIBRATING, LEVELING, SPREADING IN CURING ETC. ARE ALSO INCLUSIVE HEREWITH.	CU.M				
3.0	<u>STEEL WORKS</u>					
3.1	<u>REINFORCEMENT</u> PROVIDING AND LAYING STEEL REINFORCEMENT OF 60,000 PSI YIELD STRENGTH (AS PER ASTM A-615) INCLUDING THE COST OF STRAIGHTENING, CUTTING, BENDING, BINDING, WASTAGE AND SUCH OVERLAPS AS ARE NOT SHOWN OVER THE DRAWINGS, PLACING IN POSITION ON M.S, CHAIRS, TYING WITH BINDING WIRES, ETC., IN ALL KINDS OF RCC WORK INCLUDING THE COST OF 18 GAUGE BINDING WIRES, CHAIRS, SPACERS ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	TON				
4.0	<u>MASONRY WORKS</u>					
4.1	<u>BLOCK MASONRY</u> PROVIDING AND LAYING CEMENT CONCRETE MACHINE MADE SOLID BLOCKS (1200 psi) SET IN 1:4 CEMENT SAND MORTAR INCLUDING CURING ETC., COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS INSTRUCTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				

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4.2	<u>BRICK MASONRY</u> PROVIDING AND LAYING BURNT BRICK MASONRY (SIZE 230 x 115x 65mm) HAVING STRENGTH 1400 PSI AS SHOWN IN DRAWINGS. IT SHOULD BE THOROUGHLY SOAKED IN WATER BEFORE BEING LAID AND JOINED IN CEMENT MORTAR 1:4 STRAIGHT OR TO CURVE WITH INNER RADIUS. BRICK SHOULD BE HARD, SQUARE, EVEN IN SIZE AND TO BE FREE FROM NODULES OF LIME AND OTHER IMPURITIES INCLUDING ALL OPERATIONS OF CURING AND TESTING ETC. INCLUDING PROVIDING DOWELS FOR ANCHORAGE BETWEEN BRICK MASONRY AND R.C.C. COLUMN. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
4.3	<u>BRICK PITCHING</u> PROVIDING AND LAYING BRICK PITCHING. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
5.0	<u>CEMENT PLASTERING, ROOFING AND FLOORING WORKS</u>					
5.1	<u>CEMENT PLASTER</u> PROVIDING AND LAYING PLASTER WITH CEMENT SAND MORTAR ON BRICK AND CONCRETE SURFACES, AT ANY HEIGHT, AS SHOWN ON THE DRAWINGS WITH G.I EXPANDED METAL AT THE INTERFACES OF STRUCTURES OF DIFFERENT MATERIALS, PLASTER STOPPER, CORNER BEADS, CHANNELS OF MAKING GROOVES AND DRIP COURSE ETC. WHEREVER REQUIRED INCLUDING HACKING, STAGGING AND CURING UP TO ANY HEIGHT. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					
i)	12mm THICK PLASTER WITH 1:4 CEMENT SAND MORTAR ON ALL INTERIOR SURFACES.	SQ.M				
ii)	20mm THICK PLASTER WITH 1:4 CEMENT SAND MORTAR ON ALL EXTERNAL SURFACES.	SQ.M				
iii)	12mm THICK 1:4 CEMENT SAND PLASTER MIXED WITH PUDLO @ 2.25 KG/Bag. IN WATER RETAINING STRUCTURE.	SQ.M				
5.2	<u>ROOF SCREEDING</u> MESH OF NOMINAL STEEL OF # 3 @ 300 C/C, 50-75 mm THICK (AVG.) SCREEDING WITH A LAYER OF BITUMEN SAND MIX. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				

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S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
5.3	<u>DAMP PROOF COURSE</u> PROVIDING AND LAYING 50mm THICK DPC (1:2:4 CC) HAVING 12mm THICK LAYER OF (1:3) CEMENT SAND MORTAR ON THE TOP. BITUMEN COATING (10/20 GRADE) WITH A POLYTHENE SHEET OF 90/100 MICRON SHALL BE LAID BETWEEN THE DPC AND PLINTH BEAM TO CONTROL WATER LOGGING. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
5.4	<u>TILES WORK</u> PROVIDING AND FIXING TILES FOR FLOORS WITH APPROVED SHADE, LAID OVER A BASE OF (1:3) C.S MORTAR AND APPROVED DRY BOND (SIKA / EQUIVALENT) INCLUDING SKIRTING & DADO SETTING IN CEMENT SLURRY FILLING THE JOINTS WITH WHITE CEMENT OR PIGMENT OF APPROVED SHADE AND APPROVED TYPE OF DRY BOND. IT ALSO INCLUDES COST OF WASHING, CLEANING AND CURING. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					
i)	POCELAIN TILES BY MASTER OR ANY APPROVED MAKE (PRIME QUALITY)	SQ.M				
ii)	NON-SLIP CERAMIC TILES BY MASTER OR ANY APPROVED MAKE (PRIME QUALITY)	SQ.M				
iii)	GLAZED CERAMIC TILES BY MASTER OR ANY APPROVED MAKE (PRIME QUALITY)	SQ.M				
iv)	ANTI STATIC TILES BY APPROVED VENDOR	SQ.M				
v)	ACID RESISTANCE CLAY TILES FLOOR	SQ.M				
6.0	<u>COLORING</u>					
6.1	<u>DISTEMPER</u> PROVIDING AND APPLYING 2 COATS OF OIL BOUND DISTEMPER OF ICI / BERGER / NIPPON OR EQUIVALENT OVER A COAT OF PRIMER. DISTEMPER SHOULD BE OF APPROVED SHADE INCLUDING SURFACE PREPARATION, FILLING, SAND PAPERING AND SMOOTH FINISHING ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
6.2	<u>PLASTIC EMULSION</u> PROVIDING AND APPLYING 2 COATS OF PLASTIC EMULSION OF ICI / BERGER / NIPPON OR EQUIVALENT OVER A COAT OF PRIMER. COLOUR SHOULD BE APPROVED SHADE INCLUDING SURFACE PREPARATION, FILLING, SAND PAPERING AND SMOOTH FINISHING ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				

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6.3	<u>WEATHER SHIELD</u> PROVIDING AND APPLYING 2 COATS OF WEATHER SHIELD OF ICI / BERGER / NIPPON OR EQUIVALENT OVER A COAT OF PRIMER. COLOUR SHOULD BE APPROVED SHADE INCLUDING SURFACE PREPARATION, FILLING, SAND PAPERING AND SMOOTH FINISHING ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
6.4	<u>SYNTHETIC ENAMEL</u> PROVIDING AND APPLYING 2 COATS OF SYNTHETIC ENAMEL BY ICI / BERGER / NIPPON OR EQUIVALENT OVER A COATS OF PRIMER. COLOUR SHOULD BE APPROVED SHADE INCLUDING SURFACE PREPARATION, FILLING, SAND PAPERING AND SMOOTH FINISHING ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					
i)	ON CONCRETE / PLASTER SURFACE	SQ.M				
ii)	ON WOODEN SURFACE	SQ.M				
iii)	ON STEEL SURFACE	SQ.M				
7.0	<u>FENCE, DOORS, WINDOWS & VENTILATORS</u>					
7.1	<u>ALUMINUM WINDOWS AND VENTILATORS</u> PROVIDING AND FIXING FULL GLAZED (OR HALF GLAZED WHERE RQUIRED) POWDER COATED ALUMINUM SAFETY WINDOWS AND VENTILATORS OF APPROVED MANUFACTURER (PRIME ALUMINIUM / LUCKY ALUMINIUM / ALCOP) OF FRAME THICKNESS 1.6mm, USING (PREMIUM MODEL OF ANODIZED BRONZE OR ALUMINUM EXTRUDED), SCREWS, GLAZED WITH DISTORTION FREE IMPORTED TINTED SAFETY GLASS AS SPECIFIED AND FLY PROOFING, COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					
i)	WINDOWS	SQ.M				
ii)	VENTILATORS	SQ.M				

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S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
7.2	<u>ALUMINUM DOORS</u> PROVIDING AND FIXING GLAZED COLOUR ANODIZED (OF APPROVED SHADE) POWDER COATED ALUMINUM SWING SAFETY DOOR (WITH SAFETY PUSH HANDLE WHERE REQUIRED) OF APPROVED MANUFACTURERS (PRIME ALUMINIUM / LUCKY ALUMINIUM / ALCOP) OF FRAME THICKNESS 1.8mm, USING SCREWS, GLAZED WITH DISTORTION FREE IMPORTED TINTED SAFETY GLASS AND FIXING ON CONCRETE, WOODEN OR STEEL FRAME. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
7.3	<u>STEEL DOORS, WINDOWS & VENTILATORS</u> SUPPLYING AND FIXING JOISTS, CHANNEL, ANGLE, TEE SECTIONS, GUARD BARS, HOOKS, HOLD FAST, GATES, GRILLS ETC., ASSEMBLING BY WELDING OR WITH THE USE OF BOLTS, NUTS, RIVETS, WASHERS ETC., AND ERECTION / FIXING IN POSITION INCLUDING MAKING GOOD THE DISTURBED SURFACES WITH 2 COATS OF SYNTHETIC ENAMEL BY ICI / BERGER / NIPPON OR EQUIVALENT OVER A COATS OF PRIMER. COLOUR SHOULD BE APPROVED SHADE INCLUDING SURFACE PREPARATION, FILLING, SAND PAPERING AND SMOOTH FINISHING ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					
i)	STEEL SWING DOORS / GATES 18 GAUGE MS PLATE (WITH OR WITHOUT 5mm THICK TINTED GLASS)	SQ.M				
ii)	M. S. LOUVERED DOORS (14 GAUGE MS PLATE FOR "Z" SECTION WELDED WITH ANGLE 40x40x6mm. FRAME ANGLE IS 50x50x6mm)	SQ.M				
iii)	M. S. LOUVERED WINDOWS (14 GAUGE MS PLATE FOR "Z" SECTION WELDED WITH ANGLE 40x40x6mm. FRAME ANGLE IS 50x50x6mm)	SQ.M				
iv)	M. S. LOUVERED VENTILATORS (14 GAUGE MS PLATE FOR "Z" SECTION WELDED WITH ANGLE 40x40x6mm. FRAME ANGLE IS 50x50x6mm)	SQ.M				
v)	M. S. GLAZED VENTILATORS WITH 5mm THICK TINTED GLASS & LOUVERED VENTILATORS (COMBINATION)	SQ.M				
vi)	FENCE WINDOW (50x50mm DIAMOND SHAPED GALVANIZED CHAIN LINK MESH WITH DIA. 3.15mm WIRE) WITH FRAME	SQ.M				
vii)	FENCE DOOR (50x50mm DIAMOND SHAPED GALVANIZED CHAIN LINK MESH WITH DIA. 3.15mm WIRE, DIA. 38 x 5 G.I PIPE BRACING & SLIDING LATCH WITH PAD LOCK) WITH FRAME	SQ.M				

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
viii)	M. S. GLAZED WINDOW WITH 5mm THICK TINTED GLASS	SQ.M				REFER DRAWING FOR DETAIL
ix)	M. S. LOUVERED VENTILATORS (14 GAUGE MS PLATE FOR "Z" SECTION WELDED WITH ANGLE 40x40x6mm. FRAME ANGLE IS 50x50x6mm) WITH EXHAUST FAN (600 X 600)	SQ.M				
x)	M. S. GLAZED VENTILATOR WITH 5mm THICK TINTED GLASS	SQ.M				
xi)	STEEL SHUTTER DOOR	SQ.M				
xii)	STEEL SLIDING DOOR (14 GAUGE MS PLATE FOR "Z" SECTION WELDED WITH ANGLE 40x40x6mm. FRAME ANGLE IS 50x50x6mm)	SQ.M				
7.4	<u>HANDRAILING</u> SUPPLYING AND FIXING RAILINGS. ASSEMBLING BY WELDING OR WITH THE USE OF BOLTS, NUTS, RIVETS, WASHERS ETC., AND ERECTION / FIXING IN POSITION INCLUDING MAKING GOOD THE DISTURBED SURFACES WITH 03 COATS OF ZINC PHOSPHATE AND 01 COAT OF PRIMER. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	RM				
7.5	<u>WOODEN DOORS</u> SUPPLYING AND FIXING SOLID/ FLUSH DOORS CONSISTING OF DOORS 38 mm THICK CONSISTING OF STEEL FRAME 16SWG AS PER DRAWING WITH 5 mm THICK COMMERCIAL PLY IMPORTED QUALITY, SOLID SHUTTER SINGLE/DOUBLE LEAVES WITH SHEESHAM LEAVING ETC. HAVING APPROVED HARDWARE, INCLUDING COST OF APPLICATION OF SOLIGNUM (TIMBERTONE MADE IN ENGLAND / GERMANY). ONE SET OF MORTISE LOCK OF ALPHA W-DOUBLE LOCK MADE IN JAPAN BEARING WITH ROUND KNOB, BEADING, ARCHITRAVE OXIDIZED FITTING ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
8.0	<u>SANITARY FITTINGS</u>					
8.1	<u>WATER CLOSET</u>					
a)	SUPPLYING AND FIXING WATER CLOSET APPARATUS EUROPEAN PATTERN, COMPLETE COMPRISING CLOSET, 13 LITRES CISTERN FLUSHING (LOW DOWN), FLUSH PIPE, BACK LITE SEAT ETC., SIZE TO BE APPROVED BY OWNER'S REPRESENTATIVE ENGINEER, FIXED TO CONCRETE/BRICK WORK, PORTA OR ANY EQUIVALENT. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	NO.				

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
b)	SUPPLYING AND FIXING WATER CLOSET ASIATIC PATTERN, CLASS "A", COMPLETE WITH CLOSET, FOOT REST, 13 LITRES FLUSHING CISTERN, FLUSH PIPE ETC; SIZE TO BE APPROVED BY OWNER'S REPRESENTATIVE ENGINEER, FIXED TO CONCRETE/BRICK WORK, PORTA OR ANY EQUIVALENT. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	NO.				
8.2	<u>WASH BASIN</u> SUPPLYING AND FIXING WASH HAND BASIN WITH GLAZED WARE PEDESTAL, SINGLE HOLE, COMPLETE WITH WASTE PIPE, WASTE COUPLING, ONE CHROMIUM PLATED CHAIN AND PLUG, MIXER, AND BRACKET ETC; FIXED TO CONCRETE, PORTA OR ANY EQUIVALENT. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	NO.				
8.3	<u>SHOWER</u> SUPPLYING AND FIXING TOILET SHOWER 15 mm DIA BY MASTER (TO BE APPROVED BY CLIENT) OR ANY EQUIVALENT. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	NO.				
8.4	<u>MIRROR</u> SUPPLYING AND FIXING MIRROR OF REQUIRED SIZE (5 mm THICK), BELGIUM OR ANY EQUIVALENT FOREIGN MADE, EDGES AND BACK COVERED WITH FINE HARD BOARD FURNISHED, FIXED TO CONCRETE, BRICK WALL. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQM				
8.5	<u>GEYSER</u> PROVIDING AND INSTALLING ELECTRICAL WATER GEYSER OF SINGER OR FIREX OR ANY EQUIVALENT MAKE CAPACITY 150 LITERS TO 250 LITERS. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	NO.				
8.6	<u>FIBER GLASS WATER TANKS</u> PROVIDING AND FIXING WATER TANKS MADE OF FIBER GLASS BY "FIBRETECH" OR ANY EQUIVALENT MADE, FIXED WITH INLET, OUTLET, OVERFLOWS AND WASHOUT CONNECTION PIECES COMPLETE WITH MANHOLE AND HINGED COVER, SUPPLY AND FIXING. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
i)	300 GALLONS	NO.				
ii)	500 GALLONS	NO.				
iii)	1000 GALLONS	NO.				
iv)	1500 GALLONS	NO.				
v)	3000 GALLONS	NO.				
9.0	<u>MISCELLANEOUS ITEMS</u>					
9.1	<u>BITUMEN COATING</u>					
	PROVIDING AND APPLYING 3 COATS OF BITUMEN GRADE 10 / 20 TO ACHIEVE 1200 MICRONS THICKNESS WITH 1 COAT OF PRIMER ON CONCRETE SURFACES EXPOSED TO EARTH. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
9.2	<u>POLYETHYLENE SHEET</u>					
	PROVIDING & LAYING POLYETHYLENE SHEET (50 MICRON THK.) OVER PLINTH BEAM. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS INSTRUCTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
9.3	<u>COUNTER</u>					
	PROVIDING AND LAYING OF GRANITE OR OTHER APPROVED MARBLE COUNTER 25 mm THK COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
9.4	<u>RAIN WATER DRAIN PIPE/SPOUT</u>					
	SUPPLYING & FIXING UPVC PIPES IN ROOF FOR THE DISPOSAL OF RAIN WATER FROM ROOF ALONG WITH ALL NECESSARY FITTINGS. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	R.M				
9.5	<u>FALSE CEILING</u>					
	PROVIDING AND FIXING MINERAL FIBER FALSE CEILING IN SIZE 600 x 600 x 20 WITH ALUMINUM "T" CHANNEL (ULTRA GRIDS / EQUIVALENT MAKE, THICKNESS SHALL BE AS PER VENDOR RECOMMENDATION) AND MULTIPLE PROFILE INCLUDING G.I. SUSPENSION SYSTEM. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
9.6	<u>STEEL RUNGS</u> PROVIDING, FABRICATING AND FIXING PAINTED REINFORCING STEEL RUNGS AS SHOWN IN DRAWING. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER	KG				
9.7	<u>EMBEDDED ITEMS</u> PROVIDING, FIXING, LEVELING AND PLACING OF ASTM A-36 EMBEDDED PLATES/SECTIONS AT THE DESIGNATED LOCATIONS AT ANY HEIGHT AND REQUIRED LENGTH. EMBEDDED PLATES/SECTIONS MUST BE OF APPROVED SIZE AND STANDARDS , IT INCLUDES ALL NECESSARY ACCESSORIES LIKE RUBBER PACKING AND LUGS ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	KG				
9.8	<u>PVC WATER STOPPER</u> PROVIDING LAYING AND FIXING PVC WATER STOPPER 225 mm WIDE OF SIKA, BERDEX, FOSPAK OR ANY APPROVED AND WELL KNOWN MANUFACTURER. COMPLETE IN ALL RESPECT AS PER DRAWINGS, SPECIFICATIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	R.M				
9.9	<u>ISOLATION JOINT</u> SUPPLYING & MAKING ISOLATION JOINT INCLUDING FILLING THE JOINT WITH MASTER FLEX FIBERFIL OR SIMILAR APPROVED MATERIAL. ALSO FILLING THE JOINT WITH JOINT SEALANT AS SHOWN ON DRAWING. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	R.M				
9.10	<u>EXPANSION JOINT</u> PROVIDING AND LAYING 25 mm THICK MASTER FLEX FIBRE FILL INCLUDING POLYSULPHIDE JOINT SEALANT ,ALUMINIUM BACKING STRIP AND STEEL DOWEL BARS ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	R.M				

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
9.11	<u>WOODEN PARTITIONS (100mm THK.)</u> PROVIDING AND ERECTING WOODEN PARTITIONS . THE WOOD SHOULD BE OF DEODAR, SHEESHAM OR APPROVED EQUIVALENT WHEREVER REQUIRED. THE TIMBER / WOOD MUST BE SOLID AND FREE FROM ALL SORTS OF WOODEN INFECTIONS. THAT APPLICATION OF SOLIGNUM (TIMBERTONE MADE IN ENGLAND / GERMANY) IS NECESSARY, INCLUDING THE PROVISION AND ERECTION OF DOORS & WINDOWS ETC. FOR THE DOORS A SET OF MORTISE LOCK OF ALPHA W-DOUBLE LOCK MADE IN JAPAN BEARING WITH ROUND KNOB, BEADING, ARCHITRAVE OXIDIZED FITTING ETC., COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
9.12	<u>PLINTH PROTECTION</u> PROVIDING AND LAYING PLINTH PROTECTION OVER COMPACTED SUB-GRADE WITH 75 THK. 1:3:6 PCC. IN S.R. CEMENT, INCLUDING 50 THK. CC. 1:4:8 WITH FORMWORK, VIBRATING, LEVELING, SPREADING AND CURING ETC., COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
9.13	<u>MARBLE STRIP</u> SUPPLYING AND FIXING 12MM WIDE MARBLE STRIP IN P.C.C FLOOR. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE/ ENGINEER	RM				
9.14	<u>JOINT SEALANT</u> PROVIDING AND APPLYING SIKAFLEX PRO-3 WF OR ANY EQUIVALENT AS JOINT SEALANT BETWEEN RING WALL FOUNDATION AND ANNULAR BASE PLATE. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER .	RM				
9.15	<u>HDPE LINER (GEO MEMBERANE)</u> PROVIDING,LAYING,JOINTING,WELDING AND TESTING OF 60 MIL GEOMEMBRANE USING E-LOCK AS PER MANUFACTURE'S INSTRUCTION .COMPLETE IN ALL RESPECTS AS PER SPECIFICATION,DRAWING AND TO THE ENTIRE SATISFACTIONS OF OWNER'S REPRESENTATIVE/CONSULTANT.	SQ.M				

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
10.0	<u>STRUCTURAL STEEL WORKS (ASTM A36)</u> SUPPLYING AND FIXING JOISTS, CHANNEL, ANGLE, TEE SECTIONS, GUARD BARS, RAILINGS, LADDERS, BRACKETS, HOOKS, HOLD FASTS, PIPE SUPPORTS PLATES ROOF TRUSSES, BEAMS, PURLINS ETC., ASSEMBLING BY WELDING OR WITH THE USE OF BOLTS, NUTS, RIVETS, WASHERS ETC., AND ERECTION / FIXING IN POSITION INCLUDING MAKING GOOD THE DISTURBED SURFACES WITH 03 COATS OF ZINC PHOSPHATE AND 01 COAT OF PRIMER. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	TON				
11.0	<u>ANCHOR BOLTS</u> SUPPLYING AND FIXING ANCHOR BOLTS (ASTM A-307) BY USE OF TEMPLATES WITH HEXAGON, SQUARE, CUP OR CHEESE HEADS, SCREWED ONE OR BOTH END, OR ONE END ENLARGED OR JAGGED OR LEWISED, EACH WITH ONE WASHER AND TWO HEXAGONE OR SQUARE NUT. COMPLETE IN ALL RESPECTS AS PER DRAWINGS STANDARDS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	KG				
12.0	<u>GROUTING</u> PROVIDING AND LAYING GROUT IN FOUNDATIONS AND POCKETS INCLUDING FORMWORK, LEVELING AND SPREADING ETC OF APPROVED MANUFACTURER (SIKA / FOSPAK / IMPORIENT CHEMICALS / EQUIVALENT). COMPLETE IN ALL RESPECT AS PER DRAWINGS. SPECIFICATIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					
i)	NON SHRINK CEMENTITIOUS	CU.M				
ii)	EPOXY	CU.M				
13.0	<u>ROADS & PAVEMENTS</u>					
13.1	<u>GRADED AGGREGATE BASE COURSE</u> PROVIDING AND LAYING GRADED AGGREGATE BASE COURSE INCLUDING PREPARATION OF BASE GRADE BEFORE BASE COURSE WORKS, AS PER ASTM D-693 SIZE AND THICKNESS WHEREVER SPECIFIED IN THE DRAWINGS. SURFACE VOIDS SHALL BE FILLED UP WITH WELL GRADED FINE AGGREGATE INCLUDING SPREADING AND COMPACTION TO ACHIEVE 95% OF MAXIMUM DRY DENSITY AS PER ASTM D1557. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
13.2	<u>ASPHALT CONCRETE BASE LAYER</u> PROVIDING AND LAYING BASE LAYER OF ASPHALT CONCRETE THICKNESS AS MENTIONED IN THE DRAWINGS AND COMPACTING WITH APPROVED WEIGHT ROLLER INCLUDING PRIME COAT @ 1.75 LTRS/ SQ.M TO BASE COURSE. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
13.3	<u>ASPHALT CONCRETE WEARING COURSE</u> PROVIDING AND LAYING WEARING COURSE OF ASPHALT CONCRETE THICKNESS AS MENTIONED IN THE DRAWINGS AND COMPACTING WITH APPROVED WEIGHT ROLLER INCLUDING TACK COAT @ 0.5 LTRS./SQ.M TO ASPHALT BASE LAYER. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
13.4	<u>SURFACE DRESSING</u> PROVIDING AND APPLYING SURFACE DRESSING (SEAL COAT) OF ASPHALT (0.5 LTRS. / SQ.M) WITH APPROVED QUALITY OF SAND. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
13.5	<u>TERMITE CONTROL TREATMENT</u> PROVIDING AND SPRAYING "BIFLEX" BY "FMC" OR ANY EQUIVALENT PESTICIDES SOLUTION WITH SPRAYING EQUIPMENT AS SPECIFIED BY THE MANUFACTURERS IN FOUNDATION PITS,(WALL&BASE), TRENCHES, EXCAVATED EARTH, CONSOLIDATED LAYER OF EARTHIN PLINTH, UNDER FLOOR, CAST IN SITU WALLS, TIE BEAMS, WOOD WORK ETC., COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				
13.6	<u>PRECAST KURB STONE</u> PROVIDING AND LAYING PRECAST FAIR FACED KURB STONE OF SIZE 450X300X150 TO BE EMBEDDED (50mm) IN 100mm THK.1:3:6 C.C , ALONG THE EDGE OF ROAD AND TO BE PAINTED WITH 2 COATS OF ALKYD ENAMEL PAINT WITH SEALANT AND OF PRIMER COLOUR SCHEME ETC., COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	RM				

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
14.0	<u>M.S. GRATING (A36)</u> SUPPLYING AND FIXING JOISTS, CHANNEL, ANGLE, TEE SECTIONS, GUARD BARS, HOOKS, HOLD FAST, GATES, GRILLS ETC., ASSEMBLING BY WELDING OR WITH THE USE OF BOLTS, NUTS, RIVETS, WASHERS ETC., AND ERECTION / FIXING IN POSITION INCLUDING MAKING GOOD THE DISTURBED SURFACES WITH 03 COATS OF ZINC PHOSPHATE AND 01 COAT OF PRIMER. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQ.M				SEE DRAWING 165-2-C-010 FOR DETAIL
15.0	<u>HEAVY DUTY PAVERS</u> PROVIDING AND LAYING HEAVY DUTY PAVERS (80mm THK.) OF STRENGTH \geq 7000 PSI. COMPLETE IN ALL RESPECT AS PER DRAWINGS, SPECIFICATIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE/ ENGINEER.	SQ.M				
16.0	<u>MANHOLE</u> SUPPLY & CONSTRUCTION OF MANHOLE RCC, SQUARE (UPTO 1000mm x 1000mm) WITH VARIABLE DEPTH FROM INVERT TO SURFACE OF COVER INCLUDING CONCRETE BENCHING AND PRECAST COVER & WITH FRAME BY CME. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	NOS.				
17.0	<u>ANCHOR POCKET</u> SUPPLYING AND FIXING ANCHOR POCKET IN EQUIPMENT FOUNDATION WITH APPROVED MATERIALS COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	NOS.				
18.0	<u>CONCRETE PROTECTIVE COATING</u> SUPPLYING AND APPLICATION OF CONCRETE PROTECTIVE COATING (SIKA SEAL 105N OR APPROVED EQUIVALENT) COMPLETE IN ALL RESPECT AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY OWNER'S REPRESENTATIVE / ENGINEER	SQ.M				

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S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
19.0	<u>PIPE SLEEVE INCLUDING SEALANT</u> SUPPLYING AND FIXING OF PIPE SLEEVE INCLUDING SEALANT COMPLETE IN ALL RESPECT AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY OWNER'S REPRESENTATIVE / ENGINEER	NOS.				
20.0	<u>PIPING WORKS</u>					
20.1	<u>UPVC PIPES</u> PROVIDING AND INSTALLING UPVC PIPES FOR PLUMBING, AIR-CONDITIONING, DRAINAGE, SEWERAGE AND GAS SUPPLY OF LIANSU, DADEX NIKASI AND PAK ARAB PIPES (APPROVED BY CLIENT) IN WALLS, FLOORS, SLABS BELOW GROUND SURFACE ETC. IT ALSO INCLUDES ALL BENDS, JOINTS, REDUCERS, CONNECTIONS, SOCKETS, TRAPS, STRAINERS, TEE, ENDS, ADOPTERS, ELBOWS, CLIPS, RINGS, COUPLINGS ETC. UP TO ANY HEIGHT OR LENGTH COMPLETE IN ALL RESPECT AS PER REQUIREMENT, DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					
i)	50 mm DIA	RM				
ii)	75 mm DIA	RM				
iii)	100mm DIA	RM				
iv)	150mm DIA	RM				
v)	200 mm DIA	RM				
vi)	250 mm DIA	RM				
vii)	300 mm DIA	RM				
viii)	400 mm DIA	RM				
20.2	<u>C.S. PIPES</u> SUPPLYING, FABRICATION, WELDING, FIXING AND TESTING OF SEAMLESS CARBON PIPES CONFORMING TO API-5L GR.B/ ASTM A-106/ASTM A-53 (SCH. 40) FOR OILY WATER DRAIN, WASTE DRAIN AND VENT WITH COMPLETE FITTINGS CONFORMING TO ASTM STANDARDS. ALL PIPES AND FITTINGS SHALL BE SUPPLIED WITH BUTT WELDED ENDS. THE WORK ALSO INCLUDES SUPPLY AND APPLICATION OF ALL MATERIAL, SURFACE PREPARATION COATING AND WRAPPING OF PIPING COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATIONS, AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					

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S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
i)	100 mm DIA	RM				
ii)	125 mm DIA	RM				
iii)	150 mm DIA	RM				
iv)	200 mm DIA	RM				
v)	250 mm DIA	RM				
vi)	300 mm DIA	RM				
20.3	<u>RCC. PIPES</u> PROVIDING AND LAYING RCC. SPIGOT AND SOCKET PIPES OF CLASS "A" (RAZIA BRAND OR EQUIVALENT) AND FIXING IN TRENCH INCLUDING CUTTING, FITTING, JOINTING WITH RUBBER RINGS AND CEMENT MORTAR (1:1) INCLUDING TESTING WITH WATER TO A HEAD OF 1.2 M ABOVE THE TOP OF THE HIGHEST PIPE, INCLUDING 75mm THICK. FINE SAND CUSHION BED UNDER THE RCC. PIPE. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					
i)	150 mm DIA	RM				
ii)	200 mm DIA	RM				
iii)	250 mm DIA	RM				
iv)	300 mm DIA	RM				
v)	350 mm DIA	RM				
vi)	400 mm DIA	RM				
21.0	<u>CAST IRON MANHOLE COVER (600 X 600) 30 THK.</u> SUPPLY AND INSTALLATION OF CAST IRON MANHOLE COVER (600 X 600) 30 THK. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	NO.				
22.0	<u>DEMOLITION WORKS</u> DEMOLITION OF SPECIFIED ITEMS INCLUDING COMPLETE DISMANTLING, LOADING, TRANSPORTATION AND UNLOADING OF DISMANTLED MATERIAL TO THE AREA DESIGNATED BY THE OWNER'S REPRESENTATIVE / ENGINEER:					

OIL & GAS DEVELOPMENT COMPANY LTD.
MELA DEVELOPMENT PROJECT
DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
i)	RCC	CU.M				
ii)	PCC	CU.M				
iii)	BRICK/BLOCK	CU.M				
23.0	<u>POLYSULPHIDE JOINT SEALANT</u>					
	PROVIDING AND LAYING POLYSULPHIDE JOINT SEALANT OR SIMILAR APPROVED WHERE REQUIRED COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
24.0	<u>MAIN GATE</u>					
	SUPPLY AND INSTALLATION, PAINTING OF MAIN GATE INCLUDING COMPLETE FIXING ASSEMBLY COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	KG				
25.0	<u>BOULDERS</u>					
	SUPPLY AND LAYING LOOSE PACKING OF BOULDERS SIZE > 100 & <150 WHERE REQUIRED COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	CU.M				
26.0	<u>DRILLING OF HOLES AND FIXING OF REBARS WITH EPOXY</u>					
	DRILLING IN EXISTING RCC CONSTRUCTION WITH PROVIDING AND LAYING OF EPOXY GROUT IN DRILLED HOLES FOR BELOW SPECIFIED ITEMS AS PER DRAWINGS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					
i)	12mm DIA BARS	RM				
ii)	16mm DIA BARS	RM				
iii)	20mm DIA BARS	RM				

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****DESCRIPTION OF BILL OF QUANTITIES FOR CIVIL WORKS**

S.NO.	DESCRIPTION	UNIT	UNIT RATE (PKR)	GST & PROVINCIAL TAXES (PKR)	TOTAL (PKR)	REMARKS
27.0	<u>BITUMEN COATING</u> PROVIDING AND APPLYING 03 COATS OF BITUMEN GRADE 10 / 20 TO ACHIEVE 1200 MICRONS THICKNESS WITH 01 COAT OF PRIMER ON CONCRETE SURFACES EXPOSED TO EARTH. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	SQM				
28.0	<u>MANHOLE COVER (600mm X 600mm, HEAVY DUTY)</u> SUPPLYING, FIXING AND SETTING OF C.I. MANHOLE COVER AND FRAME BY CME OR EQUIVALENT PAK MADE INCLUDING ANGLE FRAME WITH LUGS. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.	NO.				
29.0	<u>CORRUGATED G.I. SHEETS</u> SUPPLYING AND FIXING CORRUGATED GALVANIZED STEEL SHEETS FIXED TO TIMBER / CONCRETE OR STEEL FRAMING OR PURLINS WITH ONE AND A HALF CORRUGATION SIDE LAPS AND 150 mm END LAPS, FIXED WITH "U" BOLTS 10 mm DIA. FIBRE AND GALVANIZED, CURVED OR LIMPED WASHERS, AT CENTERS NOT EXCEEDING 300 mm. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					
i)	20 GAUGE	SQ.M				
ii)	22 GAUGE	SQ.M				
iii)	24 GAUGE	SQ.M				
iv)	26 GAUGE	SQ.M				
30.0	<u>HILTI BOLTS (CHEMICAL ANCHOR BOLTS)</u> SUPPLYING AND INSTALLING HILTI BOLTS, HIT-RE 500 V3 + HIT-V(5.8) MATERIAL AS PER MANUFACTURER'S INSTRUCTIONS. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATION AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE / ENGINEER.					
i)	M12	NOS.				
ii)	M16	NOS.				
iii)	M20	NOS.				

ATTACHMENT – II

BILL OF QUANTITIES FOR CIVIL WORKS



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OIL & GAS DEVELOPMENT COMPANY LTD.

MELA DEVELOPMENT PROJECT

BILL OF QUANTITIES FOR CIVIL WORKS



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OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****BILL OF QUANTITIES OF CIVIL WORKS FOR INFRASTRUCTURE WORKS**

S.NO.	DESCRIPTION	QTY. (A)	UNIT	UNIT RATE (PKR) (B)	AMOUNT (PKR) (C = A x B)	GST & PROVINCIAL TAXES (PKR) (D)	TOTAL (PKR) (E = C + D)	REMARKS
1.0	<u>GRADING WORKS</u>							
1.1	EXCAVATED SOIL FILL AS PER ITEM NO. 1.4.i)	7,000	CUM					
1.2	IMPORTED SOIL FILL AS PER ITEM NO. 1.4.ii)	7,000	CUM					
1.3	CUTTING AS PER ITEM NO. 1.3	10,000	CUM					
2.0	<u>ROADS</u>							
2.1	GRADED AGGREGATE BASE COURSE AS PER ITEM NO. 13.1	538	CU.M					
2.2	ASPHALT CONCRETE BASE COURSE LAYER AS PER ITEM NO. 13.2	2,150	SQ.M					
2.3	ASPHALT CONCRETE WEARING COURSE LAYER AS PER ITEM NO.13.3	2,150	SQ.M					
2.4	SUB BASE COURSE AS PER ITEM NO. 1.9	323	CUM					
2.5	PRECAST KERB STONES INCLUDING 1:3:6 AS PER ITEM NO 13.6	650	R.M					
2.6	COMPACTED EARTHFILL AS PER ITEM NO. 1.11	10	CUM					
2.7	STONE PITCHING AS PER ITEM NO. 1.6	5	CUM					
2.8	SURFACE DRESSING AS PER ITEM NO. 13.4	2,150	SQ.M					
3.0	<u>BRICK PAVING</u>		SQM					
3.1	BRICK PAVING AS PER ITEM NO. 1.10	290	SQM					
3.2	C. C. 1:4:8 AS PER ITEM NO. 2.1	22	CU.M					
4.0	<u>STORM WATER SYSTEM</u>							
4.1	EXCAVATION AS PER ITEM NO. 1.1	700	CU.M					
4.2	C. C. 1:4:8 AS PER ITEM NO. 2.1	35	CUM					
4.3	R.C.C. 3750 psi AS PER ITEM NO. 2.2	465	CUM					
4.4	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	28	TONS					
4.5	GRATING AS PER ITEM NO. 14.0	440	SQM					
4.6	POLYSULPHIDE JOINT SEALANT AS PER ITEM NO. 23	0.1	CUM					
4.7	C.S PIPES AS PER ITEM NO. 20.2							
a)	100 mm DIA PIPE	1	RM					
b)	150 mm DIA PIPE	1	RM					

REFER DRAWING FOR DETAIL

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****BILL OF QUANTITIES OF CIVIL WORKS FOR INFRASTRUCTURE WORKS**

S.NO.	DESCRIPTION	QTY. (A)	UNIT	UNIT RATE (PKR) (B)	AMOUNT (PKR) (C = A x B)	GST & PROVINCIAL TAXES (PKR) (D)	TOTAL (PKR) (E = C + D)	REMARKS
c)	200 mm DIA PIPE	1	RM					
d)	250 mm DIA PIPE	1	RM					
e)	300 mm DIA PIPE	1	RM					
4.8	R.C.C PIPES AS PER ITEM NO. 20.3							
a)	100 mm DIA PIPE	1	RM					
b)	150 mm DIA PIPE	1	RM					
c)	200 mm DIA PIPE	1	RM					
d)	250 mm DIA PIPE	1	RM					
e)	300 mm DIA PIPE	1	RM					
4.9	STRUCTURAL STEEL AS PER ITEM NO. 10.0	7.20	TON					
4.10	MANHOLE COVER AS PER ITEM NO. 28.0	1	NOS.					
5.0	DEMOLITION WORKS							
a)	AS PER ITEM NO. 22.0 (i)	1	CUM					
b)	AS PER ITEM NO. 22.0 (ii)	1	CUM					
c)	AS PER ITEM NO. 22.0 (iii)	1	CUM					
TOTAL (PKR)								

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****BILL OF QUANTITIES OF CIVIL WORKS FOR BUILDING & SHED WORKS**

S.NO.	DESCRIPTION	QTY. (A)	UNIT	UNIT RATE (PKR) (B)	AMOUNT (PKR) (C = A x B)	GST & PROVINCIAL TAXES (PKR) (D)	TOTAL (PKR) (E = C + D)	REMARKS
1.0	<u>FIREWATER PUMP SHED (INCLUDING INSIDE PUMPS & DIESEL TANK FOUNDATIONS)</u>							
1.1	EXCAVATION AS PER ITEM NO. 1.1	230	CU.M					
1.2	SELECT A3 FILL MATERIAL (BELOW FOUNDATION) AS PER ITEM NO. 1.11	75	CU.M					
1.3	C. C. 1:4:8 AS PER ITEM NO. 2.1	12.0	CU.M					
1.4	C. C. 1:3:6 AS PER ITEM NO. 2.5	30	CU.M					
1.5	RCC 1:2:4 IN FLOOR AS PER ITEM NO. 2.9	60	CU.M					
1.6	R.C.C. 3750 psi AS PER ITEM NO. 2.2	130	CU.M					
1.7	GROUT AS PER ITEM NO. 12.0.i)	0.60	CU.M					
1.8	GROUT AS PER ITEM NO. 12.0.ii)	0.16	CU.M					
1.9	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	17.5	TON					
1.10	PLINTH PROTECTION AS PER ITEM NO. 9.12	66	SQ.M					
1.11	GRATING AS PER ITEM NO. 14	1	SQ.M					
1.12	ANCHOR BOLTS AS PER ITEM NO. 11	400	KG					
1.13	STONE SOLING AS PER ITEM NO. 1.5	61	CU.M					
1.14	ISOLATION JOINT AS PER ITEM NO. 9.9	40	RM					
1.15	STRUCTURAL STEEL AS PER ITEM NO. 10.0	45	TON					
1.16	ANCHOR POCKETS AS PER ITEM NO. 17	38	NOS.					SIZE AS PER DRAWING
1.17	GI SHEET AS PER ITEM NO. 29.0 (i)	500	SQM					
1.18	BRICK MASONRY AS PER ITEM NO. 4.2	11.0	CU.M					
2.0	<u>UTILITY SHED</u>							
2.1	EXCAVATION AS PER ITEM NO. 1.1	125	CU.M					
2.2	SELECT A3 FILL MATERIAL (BELOW FOUNDATION) AS PER ITEM NO. 1.11	40	CU.M					

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****BILL OF QUANTITIES OF CIVIL WORKS FOR BUILDING & SHED WORKS**

S.NO.	DESCRIPTION	QTY. (A)	UNIT	UNIT RATE (PKR) (B)	AMOUNT (PKR) (C = A x B)	GST & PROVINCIAL TAXES (PKR) (D)	TOTAL (PKR) (E = C + D)	REMARKS
2.3	C. C. 1:4:8 AS PER ITEM NO. 2.1	7.5	CU.M					
2.4	C. C. 1:3:6 AS PER ITEM NO. 2.5	18.5	CU.M					
2.5	C. C. 1:2:4 AS PER ITEM NO. 2.4	1	CU.M					
2.6	R.C.C. 3750 psi AS PER ITEM NO. 2.2	35	CU.M					
2.7	RCC 1:2:4 IN FLOOR AS PER ITEM NO. 2.9	37	CU.M					
2.8	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	5.00	TON					
2.9	GROUT AS PER ITEM NO. 12.0.i)	0.10	CU.M					
2.10	PLINTH PROTECTION AS PER ITEM NO. 9.12	52	SQ.M					
2.11	GRATING AS PER ITEM NO. 14	1	SQ.M					
2.12	ANCHOR BOLTS AS PER ITEM NO. 11	200	KG					
2.13	EMBEDDED ITEMS AS PER ITEM NO. 9.7	10	KG					
2.14	STONE SOLING AS PER ITEM NO. 1.5	37	CU.M					
2.15	STRUCTURAL STEEL AS PER ITEM NO. 10.0	27	TON					
2.16	ISOLATION JOINT AS PER ITEM NO. 9.9	20	RM					
2.17	DPC AS PER ITEM NO. 5.3	12.00	SQM					
2.18	BRICK MASONRY AS PER ITEM NO. 4.2	9.0	CU.M					
2.19	GI SHEET AS PER ITEM NO. 29.0 (i)	310	SQM					
3.0	<u>COMPRESSOR SHED</u>							
3.1	EXCAVATION AS PER ITEM NO. 1.1	300	CU.M					
3.2	C. C. 1:4:8 AS PER ITEM NO. 2.1	15	CU.M					
3.3	C. C. 1:3:6 AS PER ITEM NO. 2.5	40	CU.M					
3.4	RCC 1:2:4 IN FLOOR AS PER ITEM NO. 2.9	80	CU.M					
3.5	R.C.C. 3750 psi UPTO PLINTH LEVEL AS PER ITEM NO. 2.2	60.0	CU.M					
3.6	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	8.50	TON					

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****BILL OF QUANTITIES OF CIVIL WORKS FOR BUILDING & SHED WORKS**

S.NO.	DESCRIPTION	QTY. (A)	UNIT	UNIT RATE (PKR) (B)	AMOUNT (PKR) (C = A x B)	GST & PROVINCIAL TAXES (PKR) (D)	TOTAL (PKR) (E = C + D)	REMARKS
3.7	GROUT AS PER ITEM NO. 12.0.i)	0.21	CU.M					
3.8	PLINTH PROTECTION AS PER ITEM NO. 9.12	50	SQ.M					
3.9	GRATING AS PER ITEM NO. 14	1	SQ.M					
3.10	ANCHOR BOLTS AS PER ITEM NO. 11	325	KG					
3.11	STONE SOLING AS PER ITEM NO. 1.5	80	CU.M					
3.12	STRUCTURAL STEEL AS PER ITEM NO. 10.0	70	TON					
3.13	ISOLATION JOINT AS PER ITEM NO. 9.9	30	RM					
3.14	SELECT A3 FILL MATERIAL (BELOW FOUNDATION) AS PER ITEM NO. 1.11	95	CU.M					
3.15	GI SHEET AS PER ITEM NO. 29.0 (i)	1180	SQM					
4.0	<u>CONTROL ROOM</u>							
4.1	EXCAVATION AS PER ITEM NO. 1.1	43	CU.M					
4.2	SELECT A3 FILL MATERIAL (BELOW FOUNDATION) AS PER ITEM NO. 1.11	13.5	CU.M					
4.3	C. C. 1:4:8 AS PER ITEM NO. 2.1	3.0	CU.M					
4.4	C. C. 1:2:4 AS PER ITEM NO. 2.4	1.0	CU.M					
4.5	R.C.C. 3750 psi AS PER ITEM NO. 2.2	40	CU.M					
4.6	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	4.0	TON					
4.7	DPC AS PER ITEM NO. 5.3	8.20	SQM					
4.8	BRICK MASONRY AS PER ITEM NO. 4.2	28.0	CU.M					
4.9	<u>CEMENT PLASTER</u>							
a)	INTERNAL PLASTER AS PER ITEM NO. 5.1 (i)	205	SQ.M					
b)	EXTERNAL PLASTER AS PER ITEM NO. 5.1 (ii)	225	SQ.M					
4.10	ROOF SCREEDING AS PER ITEM NO. 5.2	94	SQ.M					

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****BILL OF QUANTITIES OF CIVIL WORKS FOR BUILDING & SHED WORKS**

S.NO.	DESCRIPTION	QTY. (A)	UNIT	UNIT RATE (PKR) (B)	AMOUNT (PKR) (C = A x B)	GST & PROVINCIAL TAXES (PKR) (D)	TOTAL (PKR) (E = C + D)	REMARKS
4.11	COLOURING AS FOLLOWS:							
a)	CEILING AS PER ITEM NO. 6.1	70	SQ.M					
b)	INTERNAL WALLS AS PER ITEM NO. 6.2	135	SQ.M					
c)	EXTERNAL AS PER ITEM NO. 6.3	225	SQ.M					
4.12	TILE WORKS AS FOLLOWS:							
a)	PROCELAIN TILES AS PER ITEM NO. 5.4 (i)	1	SQ.M					
b)	ANTI STATIC TILES AS PER ITEM NO. 5.4 (iv)	72	SQ.M					
4.13	ALUMINIUM DOORS, WINDOWS & VENTILATORS							
a)	ALUMMINIUM DOORS AS PER ITEM NO. 7.2	1.2	SQ.M					
b)	ALUMMINIUM WINDOWS AS PER ITEM NO. 7.1 (i)	13	SQ.M					
4.14	STEEL DOOR AS PER ITEM NO. 7.3. (i)	3	SQ.M					
4.15	RAIN WATER DRAIN PIPE / SPOUT AS PER ITEM NO. 9.4	5	R.M					
4.16	PLINTH PROTECTION AS PER ITEM NO. 9.12	22	SQ.M					
4.17	C. C. 1:3:6 AS PER ITEM NO. 2.5	3.5	CU.M					
4.18	C. C 1:2:4 FLOORING AS PER ITEM NO. 2.8 (a)	5	CU.M					
4.19	DEMOLITION WORKS							
a)	AS PER ITEM NO. 22.0 (i)	1	CUM					
b)	AS PER ITEM NO. 22.0 (ii)	1	CUM					
c)	AS PER ITEM NO. 22.0 (iii)	1	CUM					
4.2	DRILLING OF HOLES AND FIXING OF REBARS WITH EPOXY							
a)	AS PER ITEM NO. 26.0 (i)	1	RM					
b)	AS PER ITEM NO. 26.0 (ii)	1	RM					
c)	AS PER ITEM NO. 26.0 (iii)	1	RM					

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****BILL OF QUANTITIES OF CIVIL WORKS FOR BUILDING & SHED WORKS**

S.NO.	DESCRIPTION	QTY. (A)	UNIT	UNIT RATE (PKR) (B)	AMOUNT (PKR) (C = A x B)	GST & PROVINCIAL TAXES (PKR) (D)	TOTAL (PKR) (E = C + D)	REMARKS
5.0	<u>SWITCHGEAR ROOM</u>							
5.1	EXCAVATION AS PER ITEM NO. 1.1	91	CU.M					
5.2	SELECT A3 FILL MATERIAL (BELOW FOUNDATION) AS PER ITEM NO. 1.11	19.0	CU.M					
5.3	FILLING AS PER ITEM NO. 1.4 (ii)	50.0	CU.M					
5.4	C. C. 1:4:8 AS PER ITEM NO. 2.1	8.0	CU.M					
5.5	C. C 1:2:4 FLOORING AS PER ITEM NO. 2.8 (a)	8	CU.M					
5.6	R.C.C. 3750 psi AS PER ITEM NO. 2.2	75	CU.M					
5.7	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	8.0	TON					
5.8	DPC AS PER ITEM NO. 5.3	13.00	SQM					
5.9	BRICK MASONRY AS PER ITEM NO. 4.2	46.0	CU.M					
5.10	CEMENT PLASTER							
a)	INTERNAL PLASTER AS PER ITEM NO. 5.1 (i)	425	SQ.M					
b)	EXTERNAL PLASTER AS PER ITEM NO. 5.1 (ii)	350	SQ.M					
5.11	ROOF SCREEDING AS PER ITEM NO. 5.2	140	SQ.M					
5.12	COLOURING AS FOLLOWS:							
a)	CEILING AS PER ITEM NO. 6.1	125	SQ.M					
b)	INTERNAL WALLS AS PER ITEM NO. 6.2	300	SQ.M					
c)	EXTERNAL AS PER ITEM NO. 6.3	350	SQ.M					
5.13	TILE WORKS AS FOLLOWS:							
a)	PROCELAIN TILES AS PER ITEM NO. 5.4 (i)	75	SQ.M					
b)	GLAZED TILES AS PER ITEM NO. 5.4 (iii)	13	SQ.M					

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****BILL OF QUANTITIES OF CIVIL WORKS FOR BUILDING & SHED WORKS**

S.NO.	DESCRIPTION	QTY. (A)	UNIT	UNIT RATE (PKR) (B)	AMOUNT (PKR) (C = A x B)	GST & PROVINCIAL TAXES (PKR) (D)	TOTAL (PKR) (E = C + D)	REMARKS
5.14	DOORS, WINDOWS & VENTILATORS							AS PER CLIENT REQUIREMENTS AND APPROVED VENDOR
a)	STEEL DOORS AS PER ITEM NO. 7.3 (i)	8	SQ.M					
b)	WOODEN DOORS AS PER ITEM NO. 7.5	6	SQ.M					
c)	SOUND PROOF ALUMINUM WINDOWS	23	SQ.M					
d)	ALUMINIUM VENTILATORS WITH EXHAUST FAN AS PER ITEM NO. 7.1 (ii)	0.2	SQ.M					
5.15	RAIN WATER DRAIN PIPE / SPOUT AS PER ITEM NO. 9.4	10	R.M					
5.16	PLINTH PROTECTION AS PER ITEM NO. 9.12	35	SQ.M					
5.17	C. C. 1:3:6 AS PER ITEM NO. 2.5	7.0	CU.M					
5.18	6mm THK. CHEQUERED PLATE	35	SQ.M					
5.19	STRUCTURAL STEEL AS PER ITEM NO. 10	297	KG					
5.20	WATER CLOSET AS PER ITEM NO. 8.1 (a)	1	NO.					
5.21	WASH BASIN AS PER ITEM NO. 8.2	1	NO.					
5.22	UPVC PIPES FOR PLUMBING WORKS AS PER ITEM NO 20.1 (i)	5	RM					
5.23	UPVC PIPES FOR PLUMBING WORKS AS PER ITEM NO 20.1 (ii)	5	RM					
5.24	UPVC PIPES FOR PLUMBING WORKS AS PER ITEM NO 20.1 (iii)	5	RM					
TOTAL (PKR)								

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****BILL OF QUANTITIES OF CIVIL WORKS FOR EQUIPMENT FOUNDATIONS & PIPE SUPPORTS**

S.NO.	DESCRIPTION	QTY. (A)	UNIT	UNIT RATE (PKR) (B)	AMOUNT (PKR) (C = A x B)	GST & PROVINCIAL TAXES (PKR) (D)	TOTAL (PKR) (E = C + D)	REMARKS
1.0	<u>TANK FOUNDATIONS</u>							
1.1	<u>FIREWATER TANK FOUNDATION</u>							
a)	EXCAVATION AS PER ITEM NO. 1.1	350	CU.M					
b)	C. C. 1:3:6 AS PER ITEM NO. 2.5	8.5	CU.M					
c)	C. C. 1:2:4 AS PER ITEM NO. 2.4	1.0	CU.M					
d)	R.C.C. 3750 psi AS PER ITEM NO. 2.2	53	CU.M					
e)	BITUMEN COATING AS PER ITEM NO. 27.0	1	SQM					
f)	HDPE GEOMEMBRANE AS PER ITEM NO. 9.15	142	SQM					
g)	2" (SCH. 40) LEAK DETECTION PIPE AS PER ITEM NO. 20.1 (i)	9	RM					
h)	ASPHALT SAND LAYER AS PER ITEM NO. 1.8	135	SQM					
i)	JOINT SEALANT AS PER ITEM NO. 9.14	43	RM					
j)	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	5	TON					
k)	COARSE SAND FILLING AS PER ITEM NO. 1.2	248	CU.M					
l)	GROUT AS PER ITEM NO. 12.0.i)	0.45	CU.M					
m)	PLINTH PROTECTION AS PER ITEM NO. 9.12	40	SQM					
n)	SELECT A3 FILL MATERIAL (BELOW FOUNDATION) AS PER ITEM NO. 1.11	88	CU.M					
o)	ANCHOR BOLTS AS PER ITEM NO. 11	364	KG					
p)	GRAVEL FILLING AS PER ITEM NO. 1.9	1	CU.M					
1.2	<u>DIESEL OIL STORAGE TANK</u>							
a)	EXCAVATION AS PER ITEM NO. 1.1	14	CU.M					
b)	SELECT A3 FILL MATERIAL (BELOW FOUNDATION) AS PER ITEM NO. 1.11	5	CU.M					
c)	C. C. 1:4:8 AS PER ITEM NO. 2.1	0.8	CU.M					
d)	R.C.C. 3750 psi AS PER ITEM NO. 2.2	11.5	CU.M					
e)	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	0.6	TON					

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****BILL OF QUANTITIES OF CIVIL WORKS FOR EQUIPMENT FOUNDATIONS & PIPE SUPPORTS**

S.NO.	DESCRIPTION	QTY. (A)	UNIT	UNIT RATE (PKR) (B)	AMOUNT (PKR) (C = A x B)	GST & PROVINCIAL TAXES (PKR) (D)	TOTAL (PKR) (E = C + D)	REMARKS
f)	C. C. 1:3:6 AS PER ITEM NO. 2.5	0.1	CU.M					
g)	GROUT AS PER ITEM NO. 12.0.i)	0.20	CU.M					
1.3	<u>INSTRUMENT AIR COMPRESSOR PACKAGE FOUNDATION</u>							
a)	EXCAVATION AS PER ITEM NO. 1.1	50	CU.M					
b)	C. C. 1:4:8 AS PER ITEM NO. 2.1	2.5	CU.M					
c)	R.C.C. 3750 psi AS PER ITEM NO. 2.2	40	CU.M					
d)	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	2.5	TON					
e)	GROUT AS PER ITEM NO. 12.0.i)	0.60	CU.M					
f)	GROUT AS PER ITEM NO. 12.0.ii)	0.30	CU.M					
g)	ANCHOR BOLTS AS PER ITEM NO. 11	45	KG					
h)	ANCHOR POCKETS AS PER ITEM NO. 17	1	NOS.					SIZE AS PER DRAWING
i)	EMBEDDED PLATES AS PER ITEM NO. 9.7	10	KG					
j)	SELECT A3 FILL MATERIAL (BELOW FOUNDATION) AS PER ITEM NO. 1.11	16	CU.M					
1.4	<u>COMPRESSOR PACKAGE FOUNDATION(S)</u>							
a)	EXCAVATION AS PER ITEM NO. 1.1	300	CU.M					
b)	C. C. 1:4:8 AS PER ITEM NO. 2.1	14.5	CU.M					
c)	R.C.C. 3750 psi AS PER ITEM NO. 2.2	268	CU.M					
d)	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	11	TON					
e)	GROUT AS PER ITEM NO. 12.0.i)	2.25	CU.M					
f)	GROUT AS PER ITEM NO. 12.0.ii)	11	CU.M					
g)	ANCHOR BOLTS AS PER ITEM NO. 11	380	KG					
h)	ANCHOR POCKETS AS PER ITEM NO. 17	97	NOS.					SIZE AS PER DRAWING
i)	EMBEDDED PLATES AS PER ITEM NO. 9.7	10	KG					
j)	SELECT A3 FILL MATERIAL (BELOW FOUNDATION) AS PER ITEM NO. 1.11	96	CU.M					

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****BILL OF QUANTITIES OF CIVIL WORKS FOR EQUIPMENT FOUNDATIONS & PIPE SUPPORTS**

S.NO.	DESCRIPTION	QTY. (A)	UNIT	UNIT RATE (PKR) (B)	AMOUNT (PKR) (C = A x B)	GST & PROVINCIAL TAXES (PKR) (D)	TOTAL (PKR) (E = C + D)	REMARKS
1.5	<u>INSTRUMENT AIR VESSEL FOUNDATION</u>							
a)	EXCAVATION AS PER ITEM NO. 1.1	55	CU.M					
b)	C. C. 1:4:8 AS PER ITEM NO. 2.1	2.60	CU.M					
c)	R.C.C. 3750 psi AS PER ITEM NO. 2.2	42	CU.M					
d)	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	3.8	TON					
e)	GROUT AS PER ITEM NO. 12.0.i)	0.55	CU.M					
f)	ANCHOR BOLTS AS PER ITEM NO. 11	42	KG					
g)	SELECT A3 FILL MATERIAL (BELOW FOUNDATION) AS PER ITEM NO. 1.11	17.50	CU.M					
1.6	<u>PIPE SLEEPERS/SUPPORTS/RACKS</u>							
a)	EXCAVATION AS PER ITEM NO. 1.1	208	CU.M					
b)	C. C. 1:4:8 AS PER ITEM NO. 2.1	7	CU.M					
c)	R.C.C. 3750 psi AS PER ITEM NO. 2.2	69	CU.M					
d)	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	7	TON					
e)	GROUT AS PER ITEM NO. 12.0.i)	0.10	CU.M					
f)	ANCHOR BOLTS AS PER ITEM NO. 11	255	KG					
g)	EMBEDDED PLATES AS PER ITEM NO. 9.7	1,425	KG					
h)	STRUCTURAL STEEL WORKS AS PER ITEM NO. 10.0	2.50	TONS					
i)	SELECT A3 FILL MATERIAL (BELOW FOUNDATION) AS PER ITEM NO. 1.11	73.00	CU.M					
j)	HILTI BOLTS AS FOLLOWS :							
-	M12 AS PER ITEM NO. 30 (i)	12	NOS.					
-	M16 AS PER ITEM NO. 30 (ii)	1	NOS.					
-	M20 AS PER ITEM NO. 30 (iii)	1	NOS.					

OIL & GAS DEVELOPMENT COMPANY LTD.**MELA DEVELOPMENT PROJECT****BILL OF QUANTITIES OF CIVIL WORKS FOR EQUIPMENT FOUNDATIONS & PIPE SUPPORTS**

S.NO.	DESCRIPTION	QTY. (A)	UNIT	UNIT RATE (PKR) (B)	AMOUNT (PKR) (C = A x B)	GST & PROVINCIAL TAXES (PKR) (D)	TOTAL (PKR) (E = C + D)	REMARKS
1.7	<u>PIG LAUNCHER FOUNDATION</u>							
a)	EXCAVATION AS PER ITEM NO. 1.1	4.5	CU.M					
b)	C. C. 1:4:8 AS PER ITEM NO. 2.1	0.2	CU.M					
c)	R.C.C. 3750 psi AS PER ITEM NO. 2.2	1.1	CU.M					
d)	STEEL REINFORCEMENT AS PER ITEM NO. 3.1	0.1	TON					
e)	GROUT AS PER ITEM NO. 12.0.i)	0.005	CU.M					
f)	ANCHOR BOLTS AS PER ITEM NO. 11	14.0	KG					
g)	SELECT A3 FILL MATERIAL (BELOW FOUNDATION) AS PER ITEM NO. 1.11	1.5	CU.M					
h)	EMBEDDED PLATES AS PER ITEM NO. 9.7	15	KG					
TOTAL (PKR)								

ATTACHMENT – III
BILL OF QUANTITIES
AVAILABLE IN SOFT COPIES