



MOE

وزارة الكهرباء
وهزارهتی کارهبا



المديرية العامة لمشاريع الانتاج الغازية

General Directorate for Gas Power Plants Projects

بهريۆه بهرايه تي گشتي پروژه کاني به ره مهيناني غازي

EPC & OE Conference

Erbil - October 01, 2009

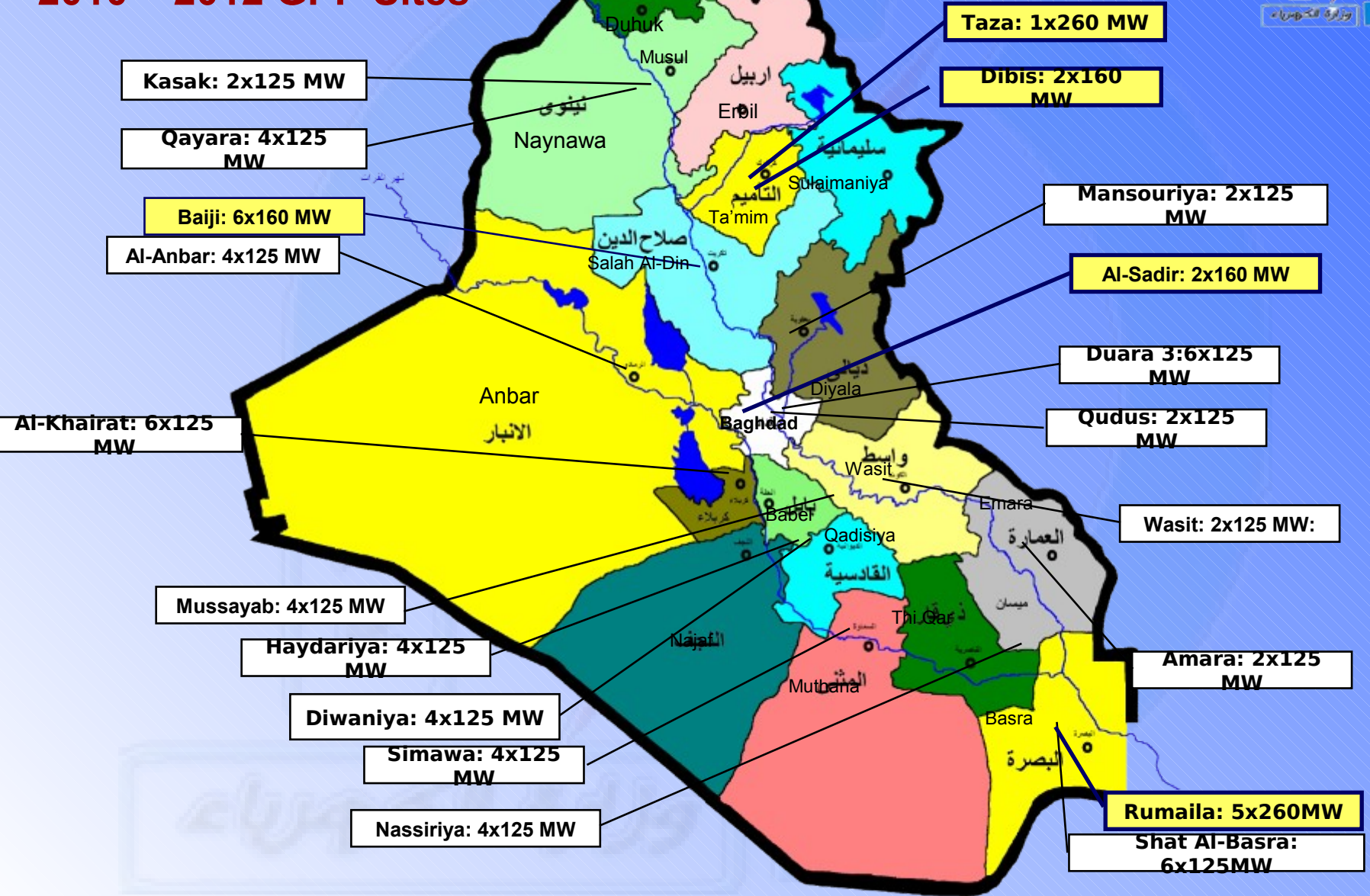


Ministry of Electricity/ Government of Iraq has already signed contracts for supplying units and major parts of GAS POWER STATIONS from GE (7000 MW) & Siemens(3560 MW) manufacturers . Different capacity units (125,160 and 270 MW) total 12000MW to be supplied and to be installed in different locations in Iraq during the period 2010 - 2012.

وزارة الكهرباء



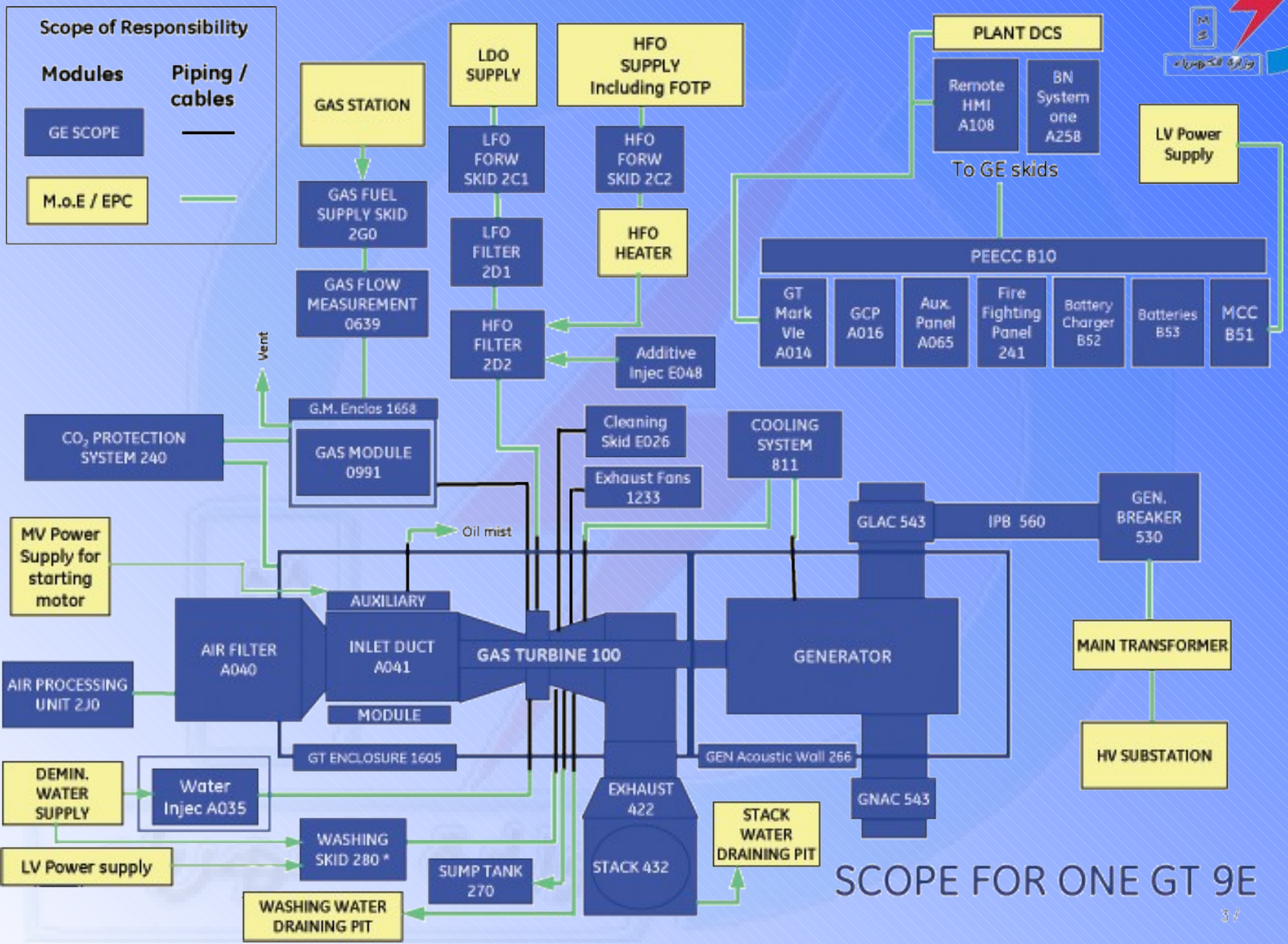
2010 – 2012 GPP Sites





1	Diwaniya	4X125	GE
2	Samawa	4X125	GE
3	Daura 2	6X125	GE
4	Kasek	2X125	GE
5	Qudus 3	2X125	GE
6	Shat-ALBasra	6X125	GE
7	Amara	2X125	GE
8	Haydariya	4X125	GE
9	Wasit	2X125	GE
10	Mansouriya	2X125	GE
11	Nasiriya 1	4X125	GE
12	Khairat	6X125	GE
13	Qayara	4X125	GE
14	Anbar	4X125	GE
15	Mussaieb	4X125	GE
16	Rumaila	5X270	Siemens
17	Taza	1X270	Siemens
18	Dibis	2X160	Siemens
19	Al-Sadr	2X160	Siemens
20	Baiji	6X160	Siemens

GE Supply scope





SIEMENS supply scope

The core of the Gas Turbine Package is the well-proven and reliable Siemens equipment:

- The Gas Turbine, SGT5-4000F
- The Gas Turbine Generator SGen5-1000A

Scope of Supply

In brief the Scope of Supply comprises two Siemens Gas Turbine Packages with the following major equipment to be supplied:

- Gas Turbine,
- Generator,
- Auxiliary systems,
- Adjacent electrical equipment
- Gas Turbine control system.
- High voltage Switchgear with all relevant equipment



2010 plan

1. Simawa	4X125 MW
2. Diwaniya	4X125 MW
3. Qudus 3	2X125 MW
4. Daura 2	6X125 MW
5. Kasek	2X125 MW
6. Rumaila	5X270 MW
7. Kirkuk – Taza	1X270 MW

وزارة الكهرباء



1. SAMAWA

- Province : Al-Muthana
- Capacity : 4X125 MW
- Site Dimension : 500X1000 m
- Coordinates :

31°13'15" N	45°16'6.52" E
31°13'23.6" N	45°16'1.71" E
31°13'3.39" N	45°16'32.17" E
31°13'18.54" N	45°16'36.98" E
- Fuel : HFO, LDO and NG
1.4 Km From Samawa Refinery
- Water : 750 m From Slaibat river
- Grid Connection : 400KV GIS Green Field



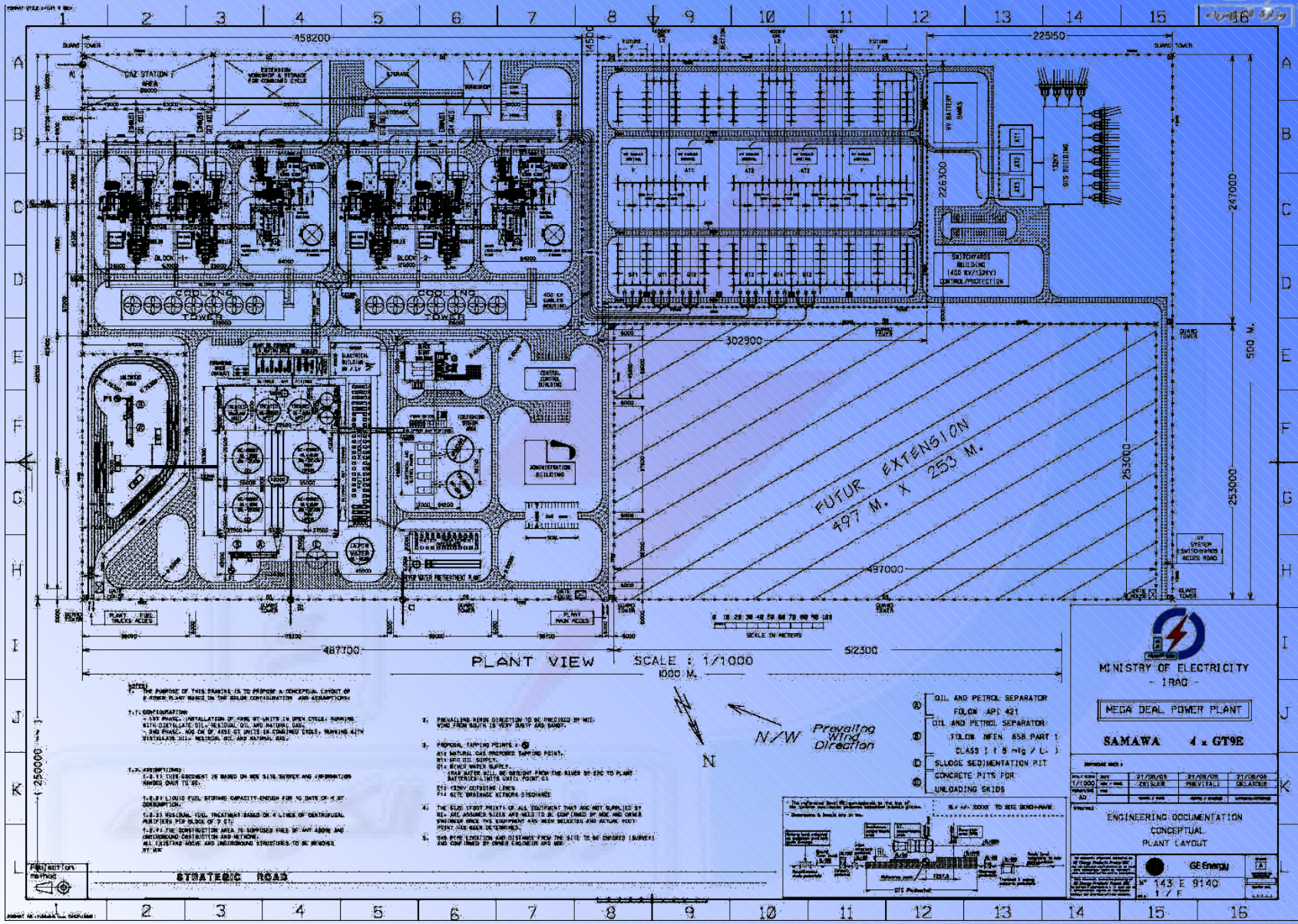
Samawa Satellite Photo



شروع
الساوة



Samawa Conceptual Layout



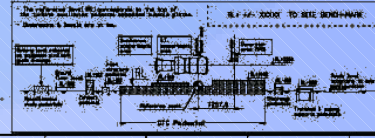
NOTE: THE PURPOSE OF THIS DRAWING IS TO PREPARE A CONCEPTUAL LAYOUT OF A POWER PLANT BASED ON THE FOLLOWING ASSUMPTIONS:

1.1- CONFIGURATION:
 - 04 GT UNITS (INSTALLATION OF FOUR UNITS IN OPEN CYCLE RUNNING WITH CONTINUOUS OIL-FUELED OIL AND NATURAL GAS).
 - 04 COMPRESSOR UNITS OF 4 STAGE IN OPEN CYCLE RUNNING WITH CONTINUOUS OIL-FUELED OIL AND NATURAL GAS.

1.2- ASSUMPTIONS:
 - TO USE DOCUMENT OF RECORD ON THE SITE, SURVEY AND INFORMATION HANDLED OVER TO BE.
 - TO BE LIQUID FUEL STORAGE CAPACITY ENOUGH FOR 04 DAYS OF 4 STAGE COMBUSTION.
 - TO BE WASTEWATER TREATMENT BASED ON 4 LINES OF CENTRIFUGAL PUMPS FOR 04 STAGE.
 - TO BE A FUTURE CONSTRUCTION AREA IS SUGGESTED THIS BY AREA ABOVE AND UNDERGROUND CONSTRUCTION AND NETWORK.
 - ALL EXISTING AND UNDERGROUND STRUCTURES TO BE REMOVED BY THE CONTRACTOR.

1. PRELIMINARY DESIGN DRAWING TO BE PROVIDED BY THE CONTRACTOR FROM THE SITE SURVEY AND REPORT.
2. PROPOSED TAPPING POINTS:
 - 2.1- NATURAL GAS THROUGH TAPPING POINT.
 - 2.2- OIL OIL SUPPORT.
 - 2.3- FRESH WATER SUPPLY.
 - 2.4- WASTE WATER TREATMENT.
 - 2.5- WASTE WATER TREATMENT.
 - 2.6- WASTE WATER TREATMENT.
 - 2.7- WASTE WATER TREATMENT.
 - 2.8- WASTE WATER TREATMENT.
3. THE SIZE OF THE POINTS OF ALL EQUIPMENT THAT ARE NOT STANDARD BY THE CONTRACTOR SHALL BE DETERMINED BY THE CONTRACTOR AND OTHER ENGINEERS ONCE THE EQUIPMENT HAS BEEN SELECTED AND ACTUAL POINT POINTS ARE DETERMINED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE TO BE CHECKED (SURVEY) AND CONFIRMED BY OTHER ENGINEER AND THE CONTRACTOR.

1. OIL AND PETROL SEPARATOR FOLDON API 421
2. OIL AND PETROL SEPARATOR FOLDON API 421
3. OIL AND PETROL SEPARATOR FOLDON API 421
4. OIL AND PETROL SEPARATOR FOLDON API 421
5. OIL AND PETROL SEPARATOR FOLDON API 421
6. OIL AND PETROL SEPARATOR FOLDON API 421
7. OIL AND PETROL SEPARATOR FOLDON API 421
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10. OIL AND PETROL SEPARATOR FOLDON API 421
11. OIL AND PETROL SEPARATOR FOLDON API 421
12. OIL AND PETROL SEPARATOR FOLDON API 421
13. OIL AND PETROL SEPARATOR FOLDON API 421
14. OIL AND PETROL SEPARATOR FOLDON API 421
15. OIL AND PETROL SEPARATOR FOLDON API 421
16. OIL AND PETROL SEPARATOR FOLDON API 421
17. OIL AND PETROL SEPARATOR FOLDON API 421
18. OIL AND PETROL SEPARATOR FOLDON API 421
19. OIL AND PETROL SEPARATOR FOLDON API 421
20. OIL AND PETROL SEPARATOR FOLDON API 421



MINISTRY OF ELECTRICITY - IRAQ

MEGA DEAL POWER PLANT

SAMAWA 4 x GT9E

ISSUED NO. 1

DATE	21/08/08	21/08/08	21/08/08
BY	ENR/ENR	ENR/ENR	ENR/ENR
CHECKED	ENR/ENR	ENR/ENR	ENR/ENR
APPROVED	ENR/ENR	ENR/ENR	ENR/ENR

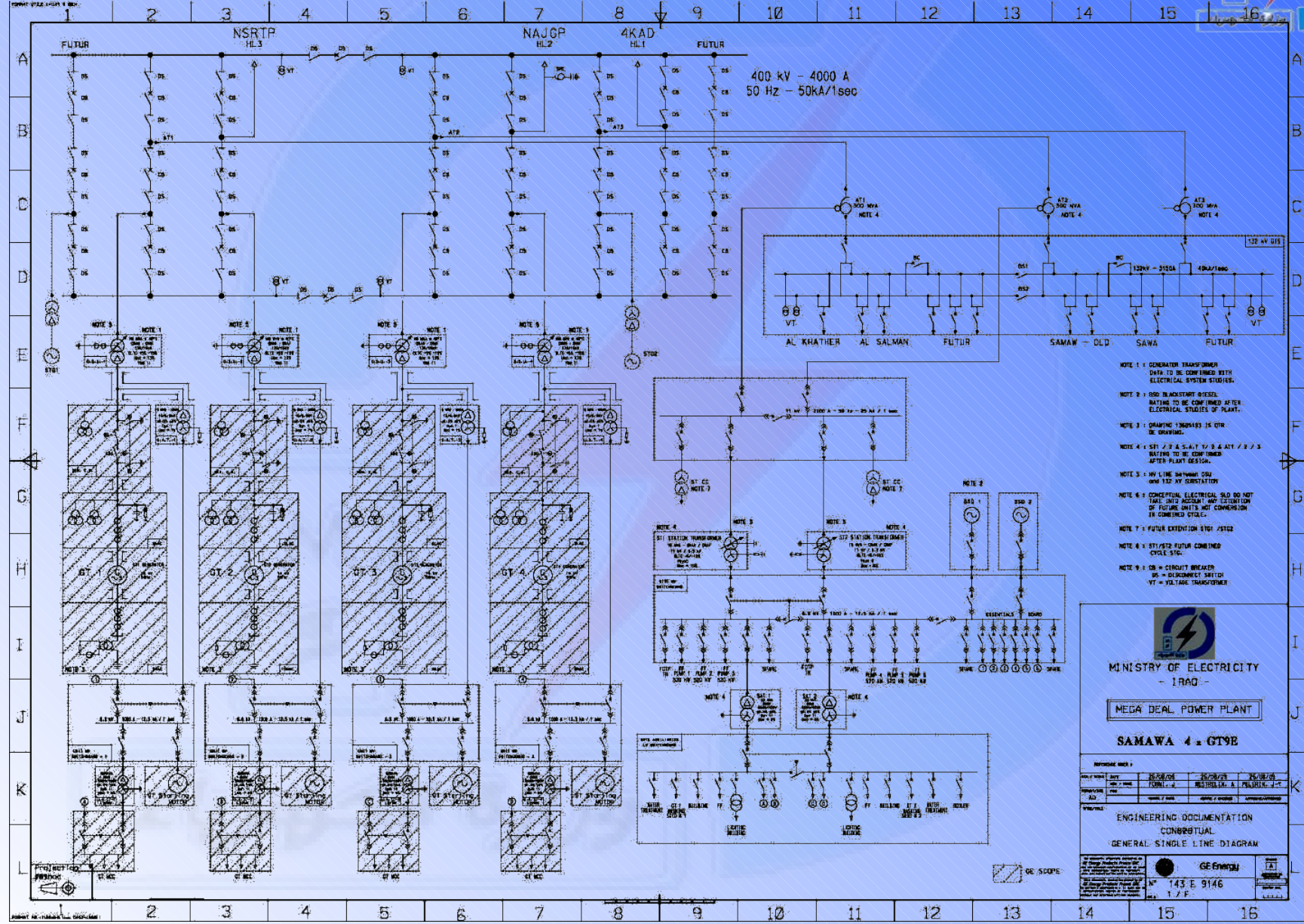
ENGINEERING DOCUMENTATION
 CONCEPTUAL
 PLANT LAYOUT

Scale: 1/1000
 No. 143 E 9140
 1/7 F

GE Energy



Samawa Single Line Diagram



MINISTRY OF ELECTRICITY
- IRAQ -

MEGA DEAL POWER PLANT

SAMAWA 4 x GT9E

DATE	BY	CHKD BY	APPV BY
14/10/2009
14/10/2009
14/10/2009
14/10/2009

ENGINEERING DOCUMENTATION
 CONCEPTUAL
 GENERAL SINGLE LINE DIAGRAM

CE Energy

Nº 143 E 9146
 1 / 7 F



2. DIWANIYA

- Province : Diwaniya
- Capacity : 4X125 MW
- Site Dimension : 500X1000 m
- Coordinates :

31°58'35.11" N	44°41'31.72" E
31°58'46.69" N	44°41'17.96" E
31°59'.9.38" N	44°41'46.19" E
31°58'58.01" N	44°42'00.09" E
- Fuel : HFO From Diwaniya Refinery, LDO & NG
50 Km from Axial Line
- Water : 12 Km from Shamiya river
- Grid Connection : 132KV GIS Green Field

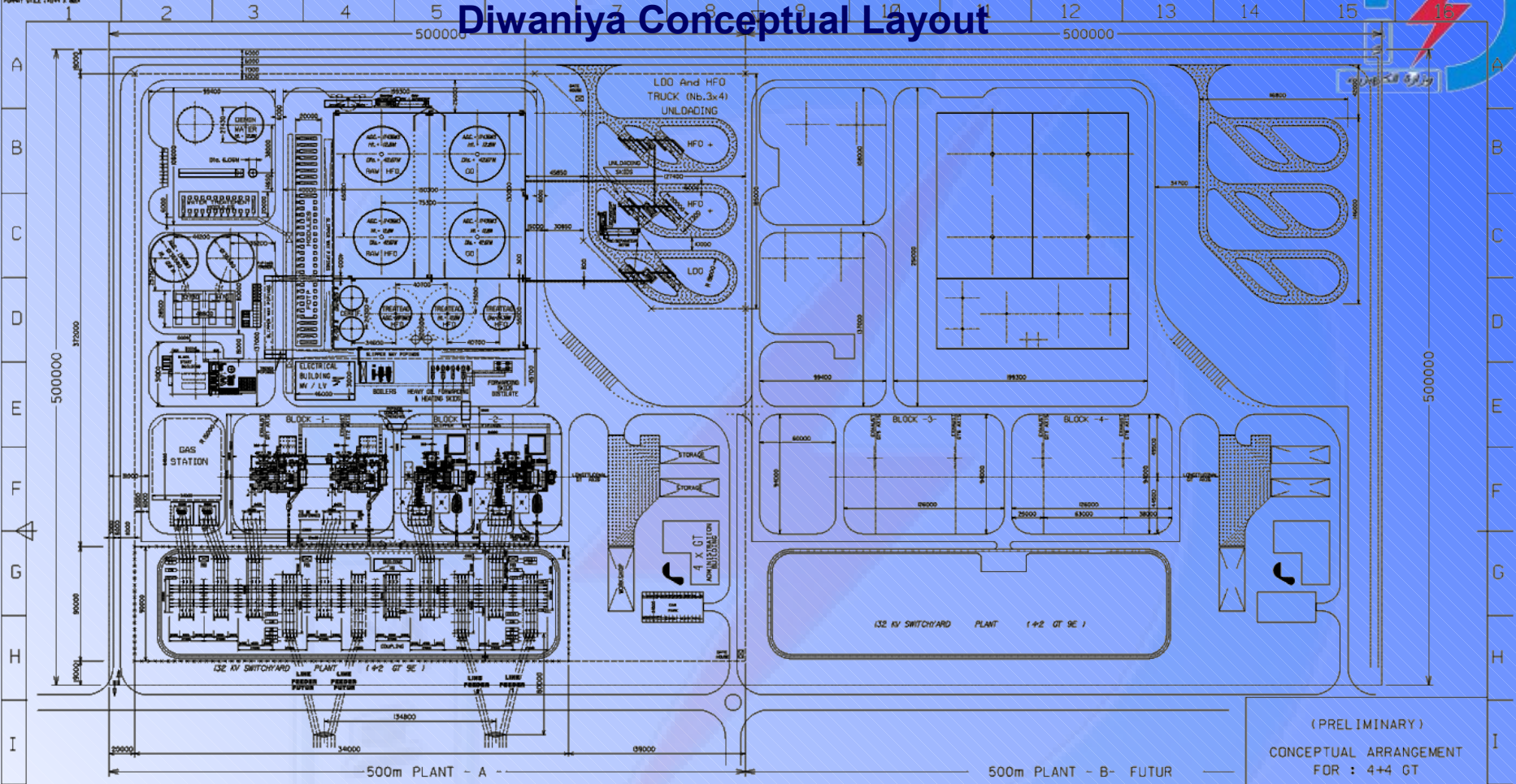


Diwaniya Satellite Photo

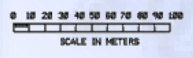




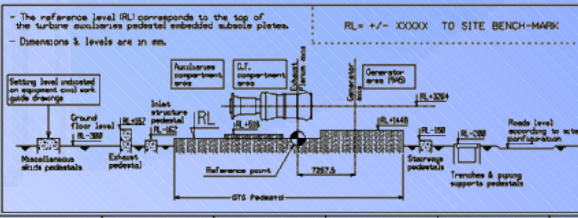
Diwaniya Conceptual Layout



PLANT VIEW
 Scale : 1/1000



1) THE PURPOSE OF THIS DRAWING IS TO PROPOSE A CONCEPTUAL LAYOUT OF A POWER PLANT BASED ON THE BELOW CONFIGURATION AND ASSUMPTIONS ASSUMPTIONS:
 2) THE CONSTRUCTION AREA IS SUPPOSED FREE OF ANY ABOVE AND UNDERGROUND OBSTRUCTION AND NETWORK.
 3) PREVALING WINDS DIRECTION TO BE PRECEDED BY AEE. MAY ALTER THE CURRENT LAYOUT, MAINLY WITH REGARD TO THE GT AIR FILTER EXPOSURE TO POTENTIAL DUSTY CONTAMINATION.
 4) THE SIZES (HEIGHT PRINCI) OF ALL EQUIPMENT THAT ARE NOT SUPPLIED BY GC, ARE ASSUMED SIZES AND NEED TO BE CONFIRMED BY MEE AND OTHER ENGINEER, SINCE THE EQUIPMENT BEING SELECTED AND ACTUAL FOOT PRINT HAS BEEN DETERMINED.



(PRELIMINARY)
 CONCEPTUAL ARRANGEMENT
 FOR : 4+4 GT
 DIWANIA PROJECT
 GAS POWER STATION
 Simple Cycle

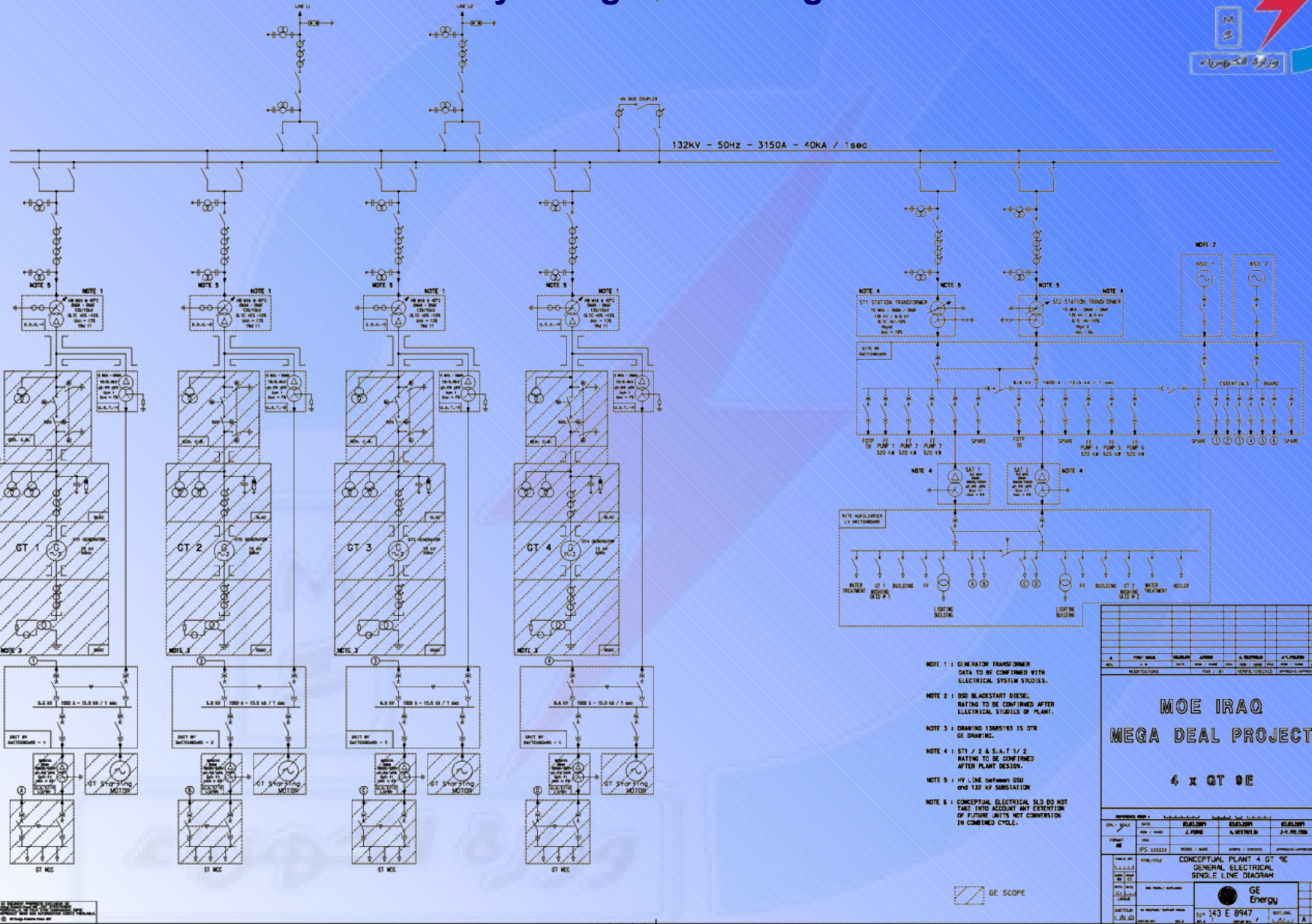
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2	11/04/09	11/04/09	11/04/09	11/04/09
3	12/04/09	12/04/09	12/04/09	12/04/09

ENGINEERING DOCUMENTATION
 PLANT CONCEPTUAL
 LAYOUT

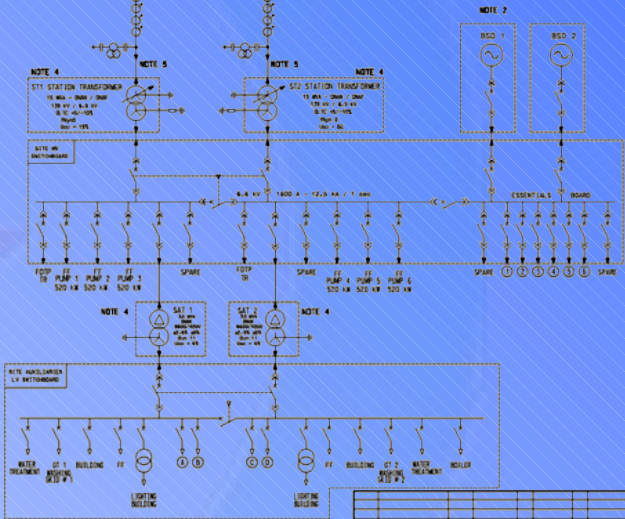
GE Energy
 No. 143E9000
 1 / F



Diwaniya Single Line Diagram



132KV - 50HZ - 3150A - 40KA / 1600



- NOTE 1 : GENERATOR TRANSFORMER DATA TO BE CONFIRMED WITH ELECTRICAL STUDIES FILES.
- NOTE 2 : DSD BLACKSTART DIESEL RATING TO BE CONFIRMED AFTER ELECTRICAL STUDIES OF PLANT.
- NOTE 3 : DRAWING 13085193 IS 0TH GE DRAWING.
- NOTE 4 : ST1 / 2 & S.A.T / 2 RATING TO BE CONFIRMED AFTER PLANT DESIGN.
- NOTE 5 : HV LINE BETWEEN GSN AND 132 KV SUBSTATION
- NOTE 6 : CONCEPTUAL ELECTRICAL SLD DO NOT TAKE INTO ACCOUNT ANY EXTENSION OF FUTURE UNITS NOT CONVERSION IN COMBINED CYCLE.

A	REV	DESCRIPTION	DATE	BY	CHECKED	APPROVED

MOE IRAQ
MEGA DEAL PROJECT
4 x GT OE

NO.	DATE	REVISION	BY	FOR	APPROVED

CONCEPTUAL PLANT 4 GT 'E' GENERAL ELECTRICAL SINGLE LINE DIAGRAM

GE Energy

NO. 143 E 0947



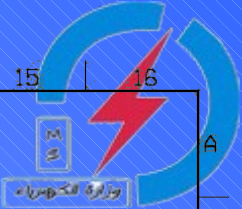
3. QUDUS 3

- Province : Baghdad
- Capacity : 2X125 MW
- Site Dimension : 98X220 m
- Coordinates : 33° 29' 28.28" N 44° 21' 43.2" E
- Fuel : LDO, NG 500m From Baghdad East Oil Field
- Water : 2 Km From Tigris river
- Grid Connection : 400KV Extension to existing SS

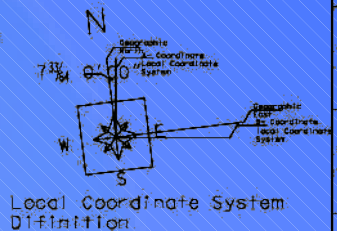
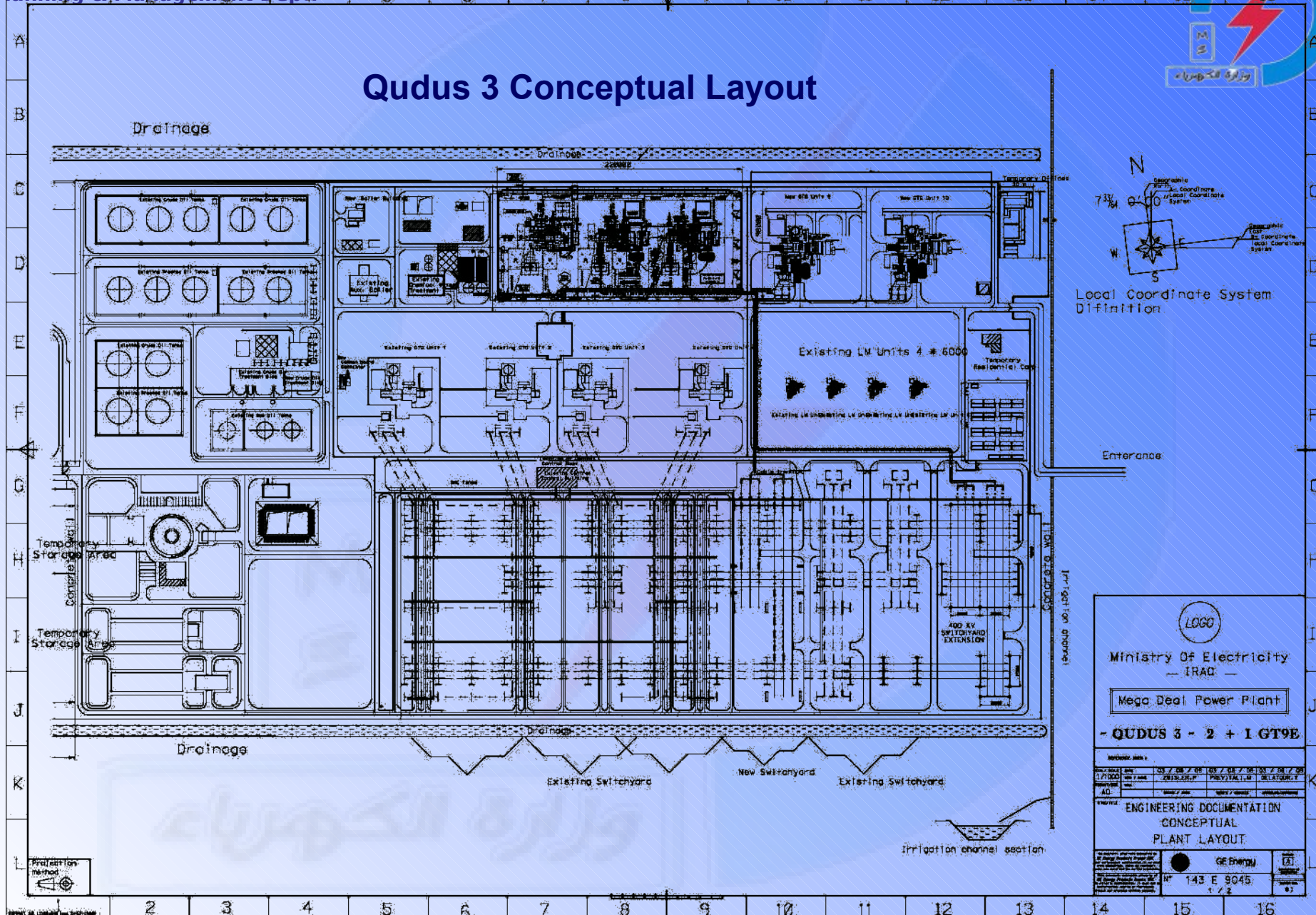



Qudus 3 Satellite Photo





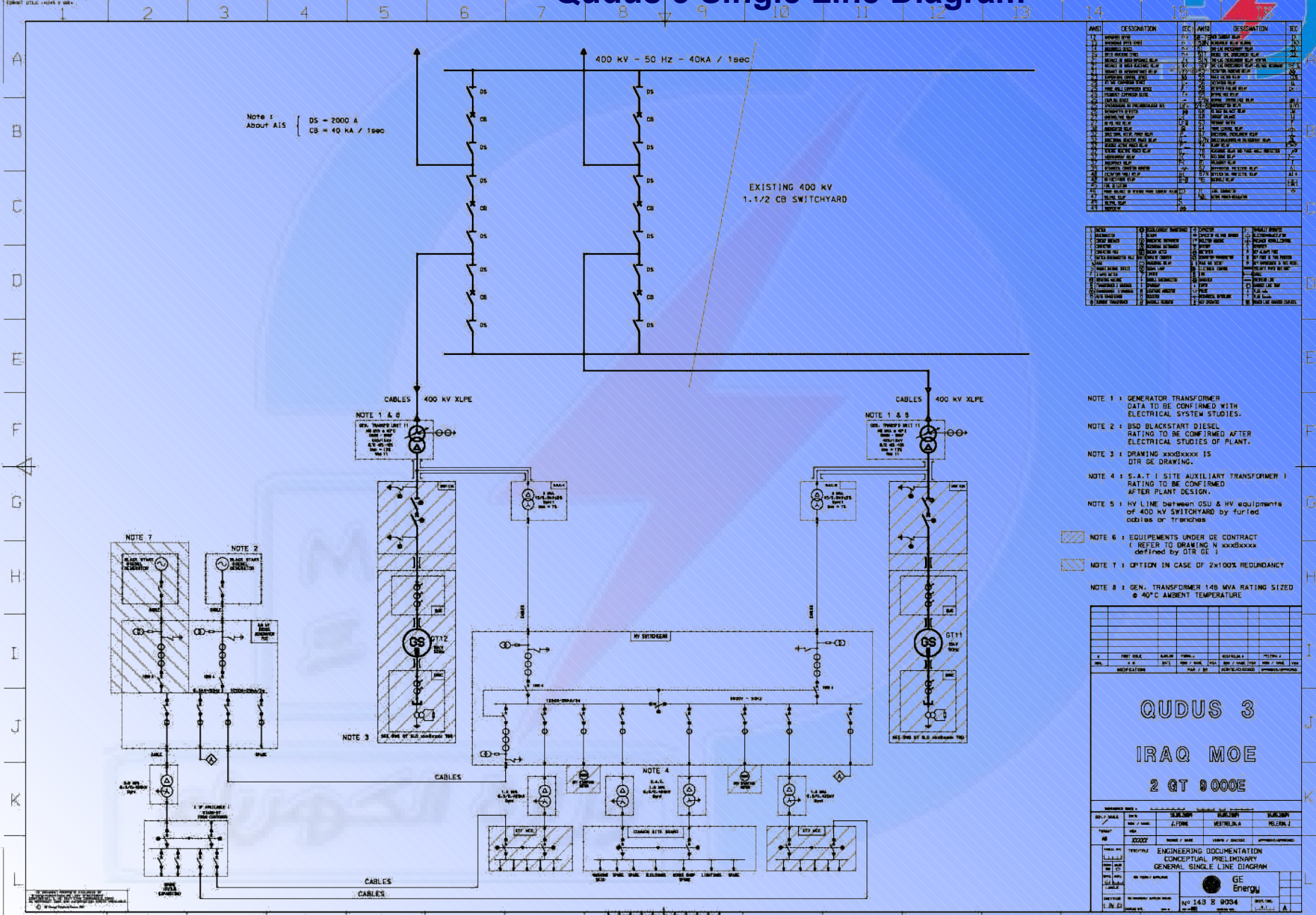
Qudus 3 Conceptual Layout




 Ministry Of Electricity
 — IRAQ —
 Mega Deal Power Plant
- QUDUS 3 - 2 + 1 GT9E

DATE	15 / 08 / 09	05 / 08 / 09	02 / 08 / 09
SCALE	1:2000	1:2000	1:2000
AD			
PROJECT	ENGINEERING DOCUMENTATION CONCEPTUAL PLANT LAYOUT		
NO	143 E 9045	1 / 2	01

Qudus 3 Single Line Diagram



Note 1 : About AIS { DS = 2000 A
 CB = 40 kA / 1sec

EXISTING 400 kV
 1.1/2 CB SWITCHYARD

AWS	DESIGNATION	ICC	AWS	DESIGNATION	ICC
1	GENERATOR UNIT	1	1	GENERATOR UNIT	1
2	GENERATOR UNIT	2	2	GENERATOR UNIT	2
3	GENERATOR UNIT	3	3	GENERATOR UNIT	3
4	GENERATOR UNIT	4	4	GENERATOR UNIT	4
5	GENERATOR UNIT	5	5	GENERATOR UNIT	5
6	GENERATOR UNIT	6	6	GENERATOR UNIT	6
7	GENERATOR UNIT	7	7	GENERATOR UNIT	7
8	GENERATOR UNIT	8	8	GENERATOR UNIT	8
9	GENERATOR UNIT	9	9	GENERATOR UNIT	9
10	GENERATOR UNIT	10	10	GENERATOR UNIT	10
11	GENERATOR UNIT	11	11	GENERATOR UNIT	11
12	GENERATOR UNIT	12	12	GENERATOR UNIT	12
13	GENERATOR UNIT	13	13	GENERATOR UNIT	13
14	GENERATOR UNIT	14	14	GENERATOR UNIT	14
15	GENERATOR UNIT	15	15	GENERATOR UNIT	15

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
1	GENERATOR UNIT	1	GENERATOR UNIT	1	GENERATOR UNIT
2	GENERATOR UNIT	2	GENERATOR UNIT	2	GENERATOR UNIT
3	GENERATOR UNIT	3	GENERATOR UNIT	3	GENERATOR UNIT
4	GENERATOR UNIT	4	GENERATOR UNIT	4	GENERATOR UNIT
5	GENERATOR UNIT	5	GENERATOR UNIT	5	GENERATOR UNIT
6	GENERATOR UNIT	6	GENERATOR UNIT	6	GENERATOR UNIT
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9	GENERATOR UNIT	9	GENERATOR UNIT	9	GENERATOR UNIT
10	GENERATOR UNIT	10	GENERATOR UNIT	10	GENERATOR UNIT
11	GENERATOR UNIT	11	GENERATOR UNIT	11	GENERATOR UNIT
12	GENERATOR UNIT	12	GENERATOR UNIT	12	GENERATOR UNIT
13	GENERATOR UNIT	13	GENERATOR UNIT	13	GENERATOR UNIT
14	GENERATOR UNIT	14	GENERATOR UNIT	14	GENERATOR UNIT
15	GENERATOR UNIT	15	GENERATOR UNIT	15	GENERATOR UNIT

- NOTE 1 : GENERATOR TRANSFORMER DATA TO BE CONFIRMED WITH ELECTRICAL SYSTEM STUDIES.
- NOTE 2 : BSD BLACKSTART DIESEL RATING TO BE CONFIRMED AFTER ELECTRICAL STUDIES OF PLANT.
- NOTE 3 : DRAWING xxxxxxxx IS DTR OF DRAWING.
- NOTE 4 : S.A.T (SITE AUXILIARY TRANSFORMER) RATING TO BE CONFIRMED AFTER PLANT DESIGN.
- NOTE 5 : HV LINE BETWEEN OSU & HV EQUIPMENTS OF 400 KV SWITCHYARD BY FURLED CABLES OR TRANCHES
- NOTE 6 : EQUIPMENTS UNDER GC CONTRACT (REFER TO DRAWING N xxxxxxxx defined by DTR GC)
- NOTE 7 : OPTION IN CASE OF 2x100% REDUNDANCY
- NOTE 8 : GEN. TRANSFORMER 148 MVA RATING SIZED @ 40°C AMBIENT TEMPERATURE

REV	DATE	BY	CHKD	DESCRIPTION
1				
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QUDUS 3
IRAQ MOE
2 GT 9000E

NO.	DATE	BY	CHKD	DESCRIPTION
1				
2				
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14				
15				



4. DAURA 2

- Capacity : 6X125 MW

- Site Dimension : Trapezoid 700m, 275m, 400m
- Coordinates :

33°14'37" N	44°25'37" E
33°14'43" N	44°25'47" E
33°14'33" N	44°25'44" E
33°14'29" N	44°25'44" E
33°14'22" N	44°25'44" E
33°14'20" N	44°25'47" E
33°14'18" N	44°25'48" E
33°14'18" N	44°25'49" E
33°14'15" N	44°25'52" E
33°14'12" N	44°25'41" E
33°14'13" N	44°25'41" E
33°14'12" N	44°25'35" E

- Fuel : Fuel Oil 3 – 5 Km From Daura Refinery
- Water : 2 Km from Tigris river
- Grid Connection : 400KV Green Field



Daura 2 Satellite Photo

مشروع محطة كهرباء الدورة الغازية

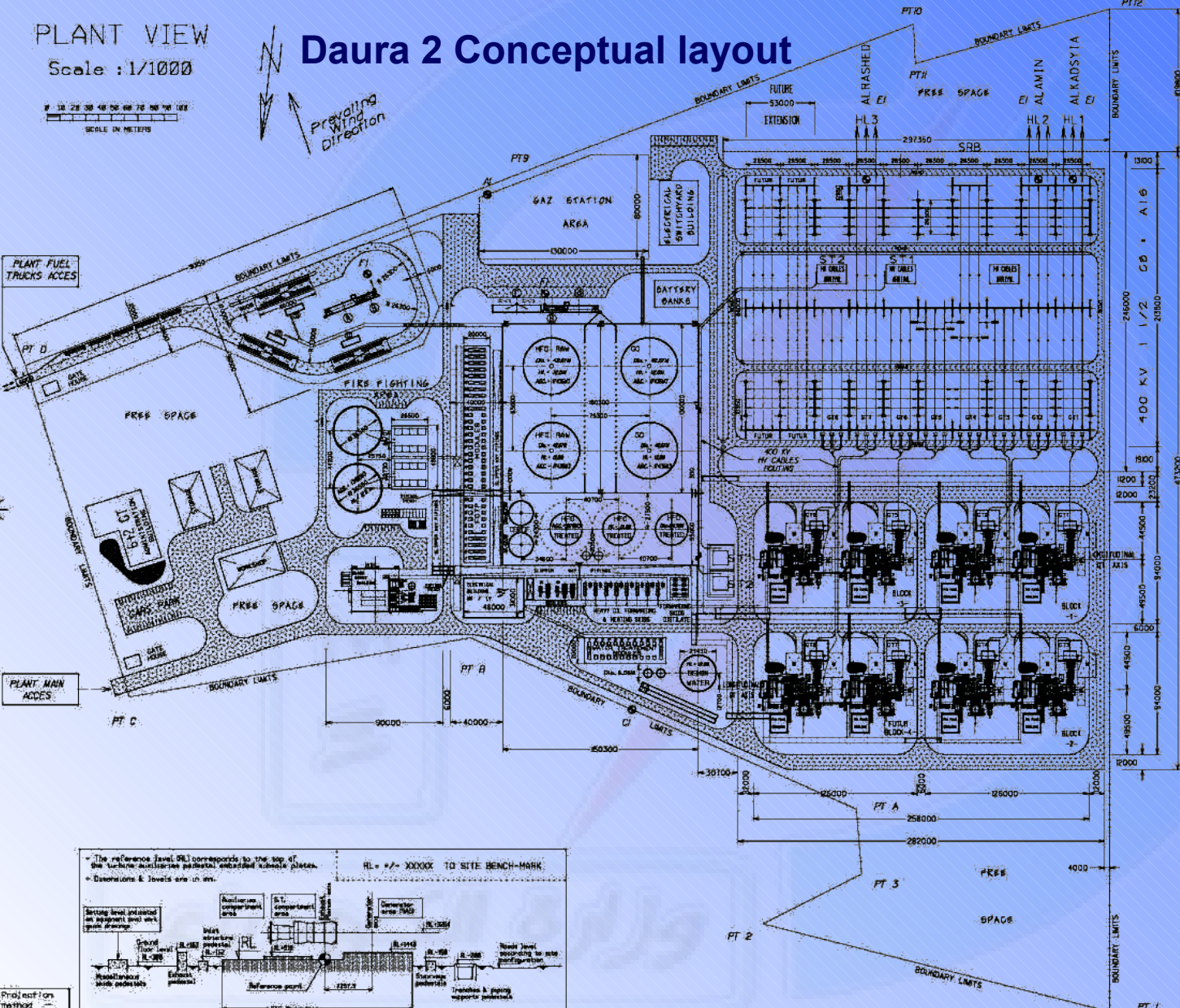
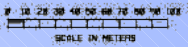




Daura 2 Conceptual layout

PLANT VIEW

Scale : 1/1000



THE PURPOSE OF THIS DRAWING IS TO PROPOSE A CONCEPTUAL LAYOUT OF A POWER PLANT BASED ON THE BELOW CONFIGURATION AND ASSUMPTIONS:
 ASSUMPTIONS:
 1) THE CONFIGURATION AREA IS SUPPOSED FREE OF ANY ABOVE AND UNDERGROUND OBSTRUCTION AND NETWORK.
 2) PREVAILING WINDS DIRECTION TO BE PRECESSED BY MOE, MAY ALTER THE CURRENT LAYOUT, MAINLY WITH REGARD TO THE FT AIR FILTER EXPOSURE TO POTENTIAL DUSTY CONTAMINATION.
 3) THE SIZES (FOOT PRINT) OF ALL EQUIPMENT THAT ARE NOT SUPPLIED BY ICE, ARE ASSUMED SIZES AND NEED TO BE CONFIRMED BY MOE AND OWNER ENGINEER, ONCE THE EQUIPMENT HAS BEEN SELECTED AND ACTUAL FOOT PRINT HAS BEEN DETERMINED.

NOTES:
 1. THE PURPOSE OF THIS DRAWING IS TO PROPOSE A CONCEPTUAL LAYOUT OF A POWER PLANT BASED ON THE BELOW CONFIGURATION AND ASSUMPTIONS:
 1.1. CONFIGURATION:
 - 1ST PHASE: INSTALLATION OF 6X8E GT UNITS IN OPEN CYCLE, RUNNING WITH DISTILLATE OIL, RESIDUAL OIL, AND NATURAL GAS.
 - 2ND PHASE: ADD ON OF 6X8E GT UNITS IN COMBINED CYCLE, RUNNING WITH DISTILLATE OIL, HFO OIL AND NATURAL GAS.
 1.2. ASSUMPTIONS:
 1.2.1. THIS DOCUMENT IS BASED ON MOE SITE SURVEY AND INFORMATION HANDLED OVER TO DE.
 1.2.2. LIGHT FUEL STORAGE CAPACITY ENOUGH FOR 8 DAYS HED 3 DAYS CDO FOR 6 GT CONSUMPTION.
 1.2.3. RESIDUAL FUEL TREATMENT BASED ON 4 LINES OF CENTRIFUGAL PURIFIERS FOR SLOOT 2 & 3.
 1.2.4. THE CONSTRUCTION AREA IS SUPPOSED FREE OF ANY ABOVE AND UNDERGROUND OBSTRUCTION AND NETWORK.
 ALL EXISTING ABOVE AND UNDERGROUND STRUCTURES TO BE REMOVED BY MOE.
 2. PREVAILING WINDS DIRECTION TO BE PRECESSED BY MOE, WIND FROM SOUTH IS VERY DUSTY AND SANDY.
 3. PROPOSED TAPPING POINTS:
 A1) NATURAL GAS PROPOSED TAPPING POINT.
 B1) HFO OIL SUPPLY.
 C1) RIVER WATER SUPPLY.
 (RAW WATER WILL BE BROUGHT FROM THE RIVER BY EPD TO PLANT BATTERIES LEATS UNIT TAPPING POINT)
 E1) 400KV DISTRIBUTING LINES.
 F1) SITE DRAINAGE NETWORK DISCHARGE.
 4. THE SIZES (FOOT PRINTS) OF ALL EQUIPMENT THAT ARE NOT SUPPLIED BY ICE, ARE ASSUMED SIZES AND NEED TO BE CONFIRMED BY MOE AND OWNER ENGINEER ONCE THE EQUIPMENT HAS BEEN SELECTED AND ACTUAL FOOT PRINT HAS BEEN DETERMINED.
 5. GAS PIPE LOCATION AND DISTANCE FROM THE SITE TO BE CHECKED (SURVEY) AND CONFIRMED BY OWNER ENGINEER AND MOE.

- ① OIL AND PETROL SEPARATOR According to API 421
- ② OIL AND PETROL SEPARATOR According to NFEN 858 PART 1 CLASS 1 (5 MID / 1.1)
- ③ SLUDGE SEDIMENTATION PIT
- ④ CONCRETE PITS FOR UNLOADING SKIS



MINISTRY OF ELECTRICITY
- IRAQ -

MEGA DEAL POWER PLANT

AL DAURA 6 + 2 GT9E

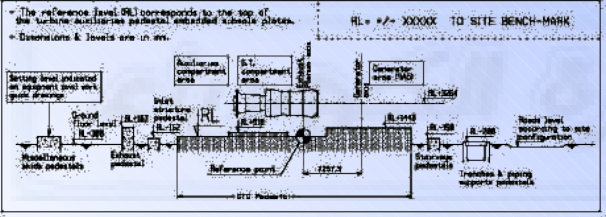
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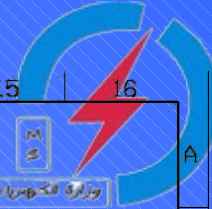
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2	01/09/08	YUSUF	PREVITALI	DELIVER

ENGINEERING DOCUMENTATION
 CONCEPTUAL
 PLANT LAYOUT

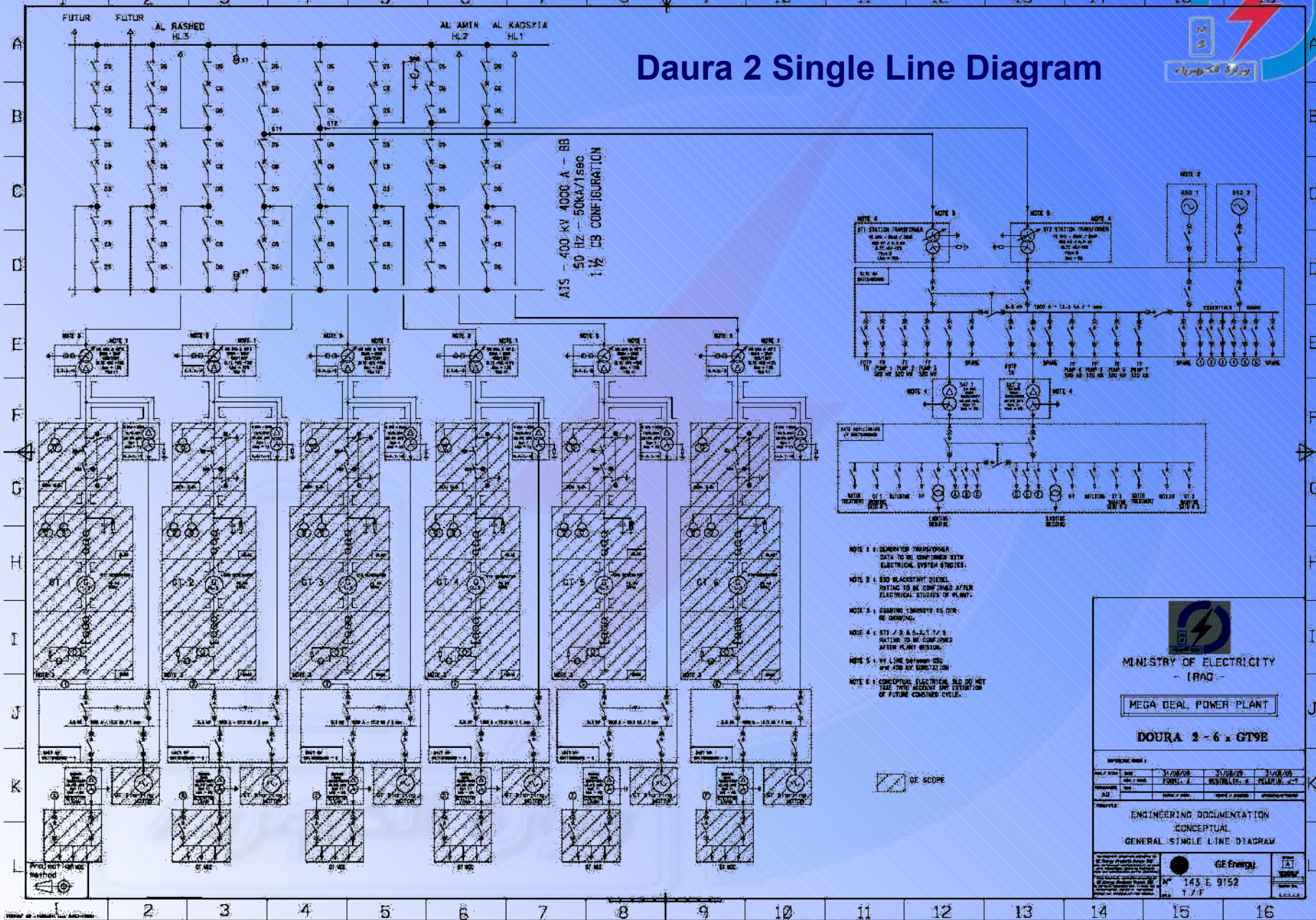
GE Energy


N° 143 E 9165
 2 / F





Daura 2 Single Line Diagram



 MINISTRY OF ELECTRICITY - IRAQ -			
MEGA-DEAL POWER PLANT			
DOURA 2 - 6 x GT9E			
WORKING NO. 1: No. / Date: ST/008 No. / Date: ENR/12	No. / Date: ST/008 No. / Date: ENR/12	No. / Date: ST/008 No. / Date: ENR/12	No. / Date: ST/008 No. / Date: ENR/12
ENGINEERING DOCUMENTATION CONCEPTUAL GENERAL SINGLE LINE DIAGRAM			
GE Energy		143 E 9152 1 / 7 F	

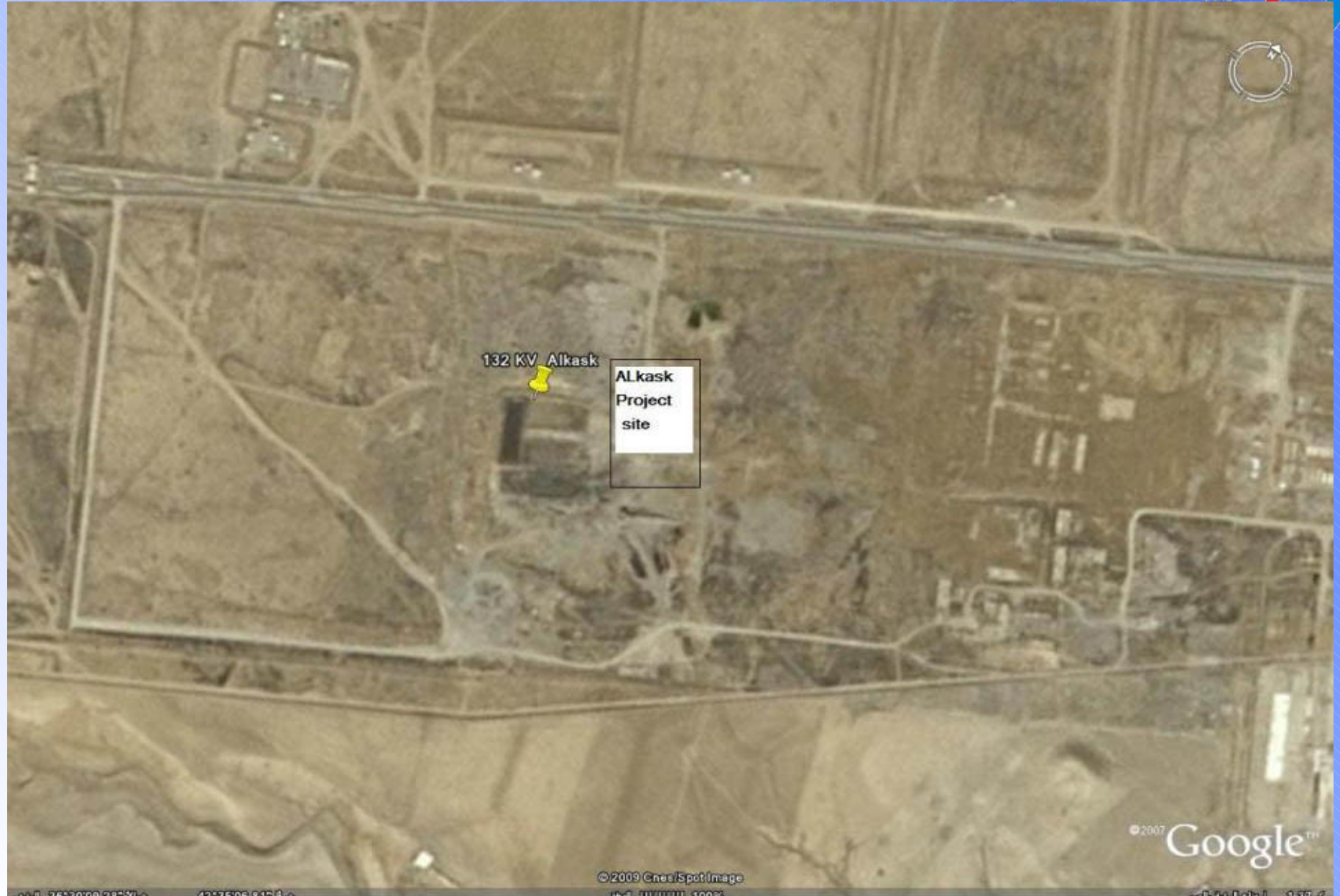


5. Kasek

- Province : Mosul
- Capacity : 2X125 MW
- Site Dimension : 400X500 m
- Coordinates : 36° 30' 22.4" N 42° 35' 50.98" E
36° 30.366" N 42° 35.864" E
- Fuel : HFO, 10 Km From Kasek Refinery, LDO & NG
- Water : 40 Km From Mosul Dam Lake
- Grid Connection : 132KV Connected to nearby existing Kasek 132KV GIS SS

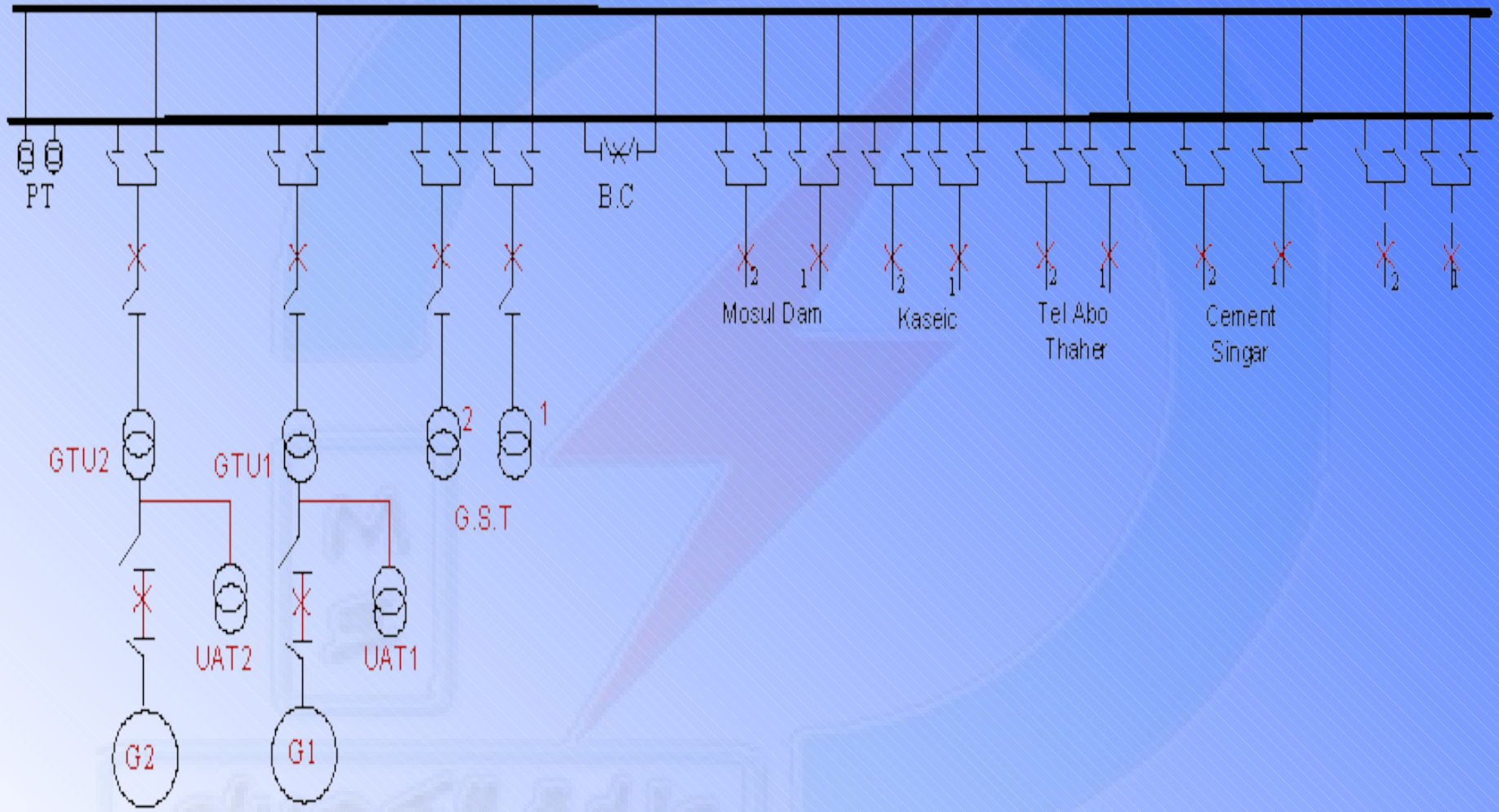


Kasek Satellite Photo





Kasek Single Line Diagram






6. Rumaila

- Province : Basra
- Capacity : 5X270 MW
- Site Dimension : 864X998 m
- Coordinates :

30° 32.788' N	47° 24.034' E
30° 33.245' N	47° 24.356' E
30° 32.995' N	47° 24.817' E
30° 32.539' N	47° 24.487' E
- Fuel : NG, 5 Km From Qurna West Gas Oil Field & LDO
- Water : 3 Km From Shat Al-Basra river
- Grid Connection : 400KV GIS Green Field

Rumaila Satellite Photo



point 2 

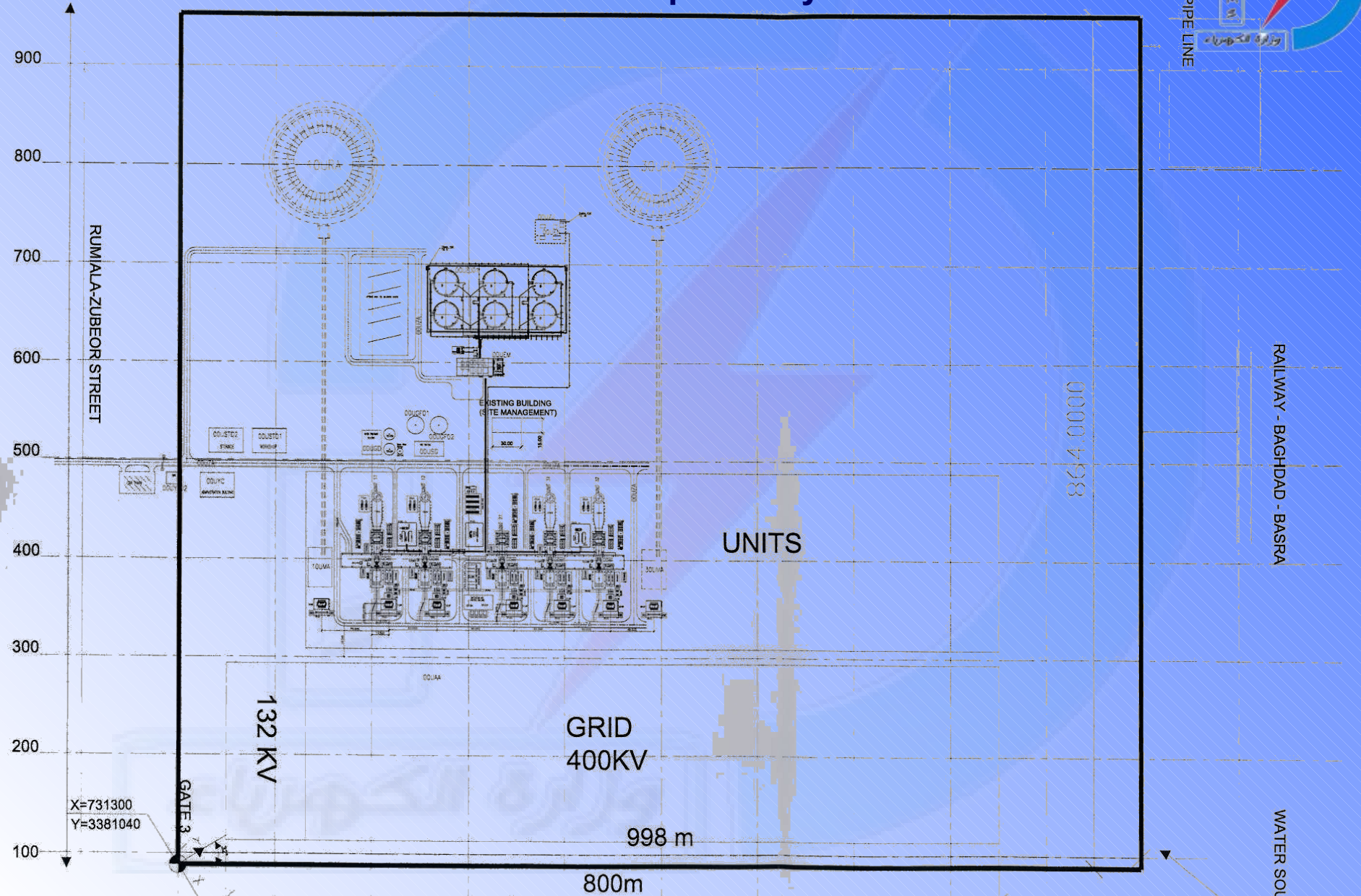


Map Data © 2009 AND
Image © 2009 DigitalGlobe

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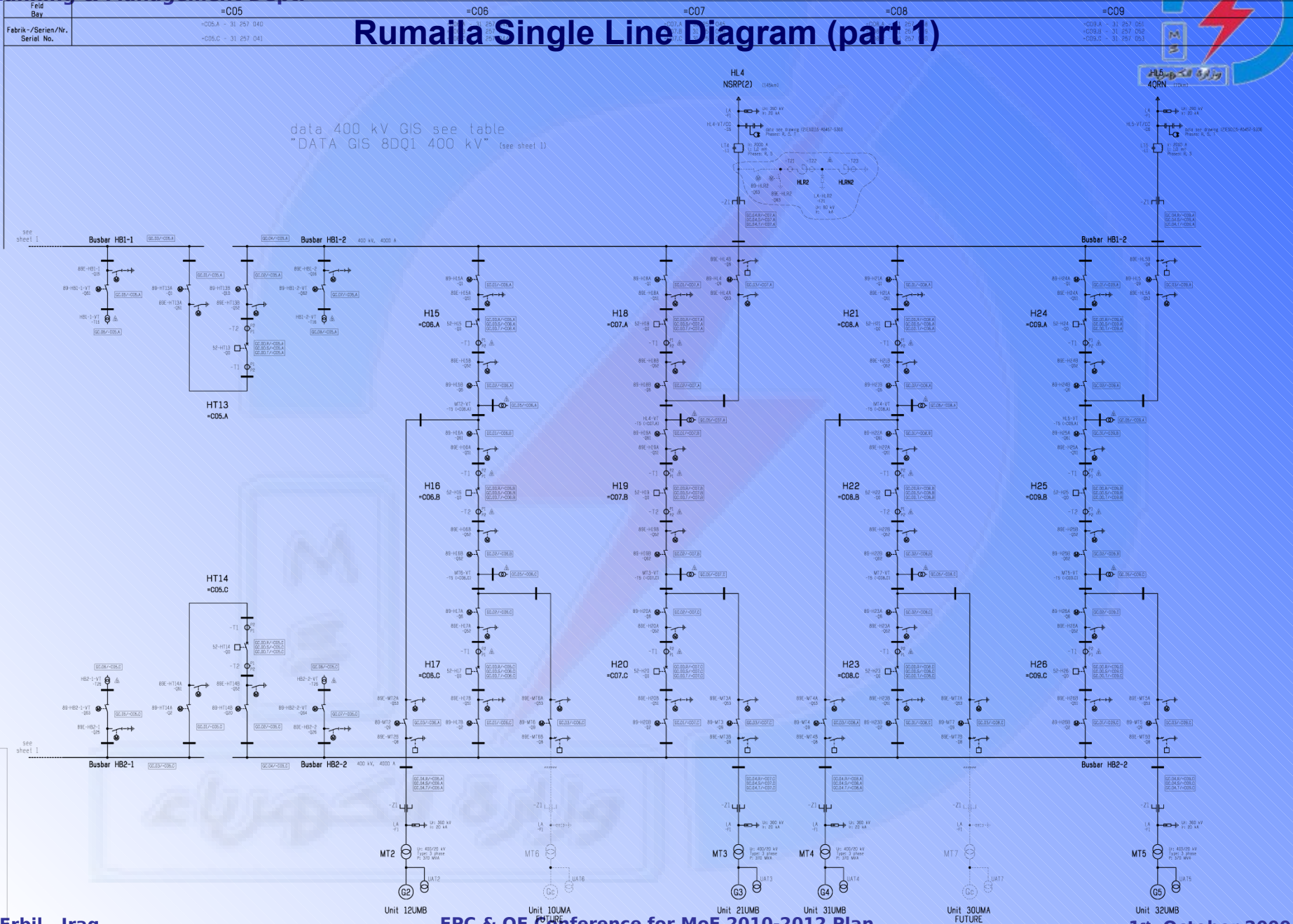


Rumaila Conceptual Layout





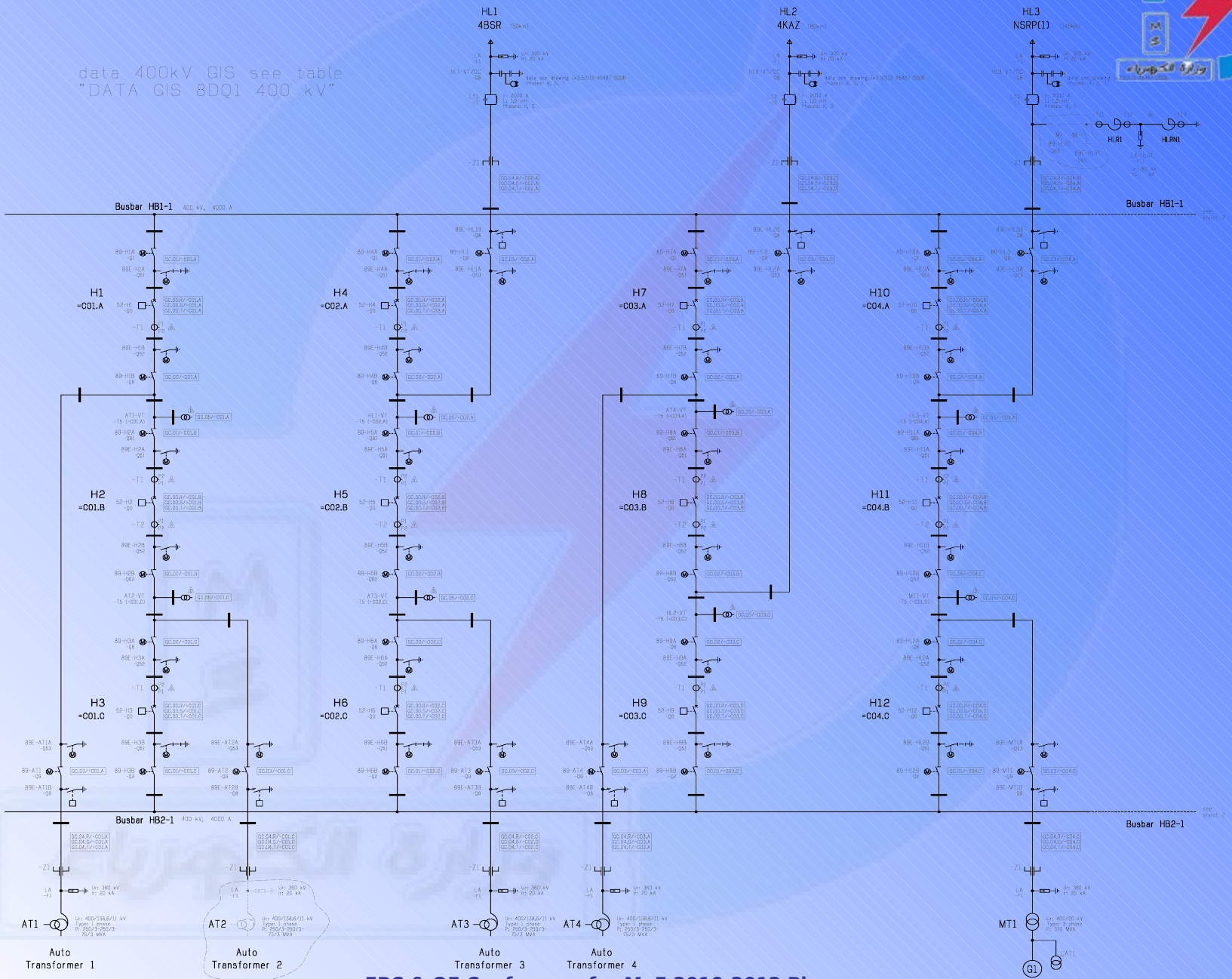
Rumaila Single Line Diagram (part 1)



Rumaila Single Line Diagram (Part 2)



data 400kV GIS see table
 "DATA GIS 8DQ1 400 kV"





7. Taza

- Province : Kirkuk
- Capacity : 1X270 MW
- Site Dimension : 100X700 m
- Coordinates :

35° 32' 69" N	44° 32' 12" E
35° 32' 66" N	44° 32' 02" E
35° 32' 89" N	44° 32' 14" E
35° 32' 86" N	44° 32' 21" E
35° 32' 99" N	44° 32' 20" E
35° 32' 96" N	44° 32' 25" E
- Fuel : NG, 30 Km From Kirkuk Refinery (North Gas Factory) & LDO
- Water : Water Wells inside Site area
- Grid Connection : 400KV Extension to existing SS

Taza Satellite Photo

taza 1

taza 2

taza 3

taza 4

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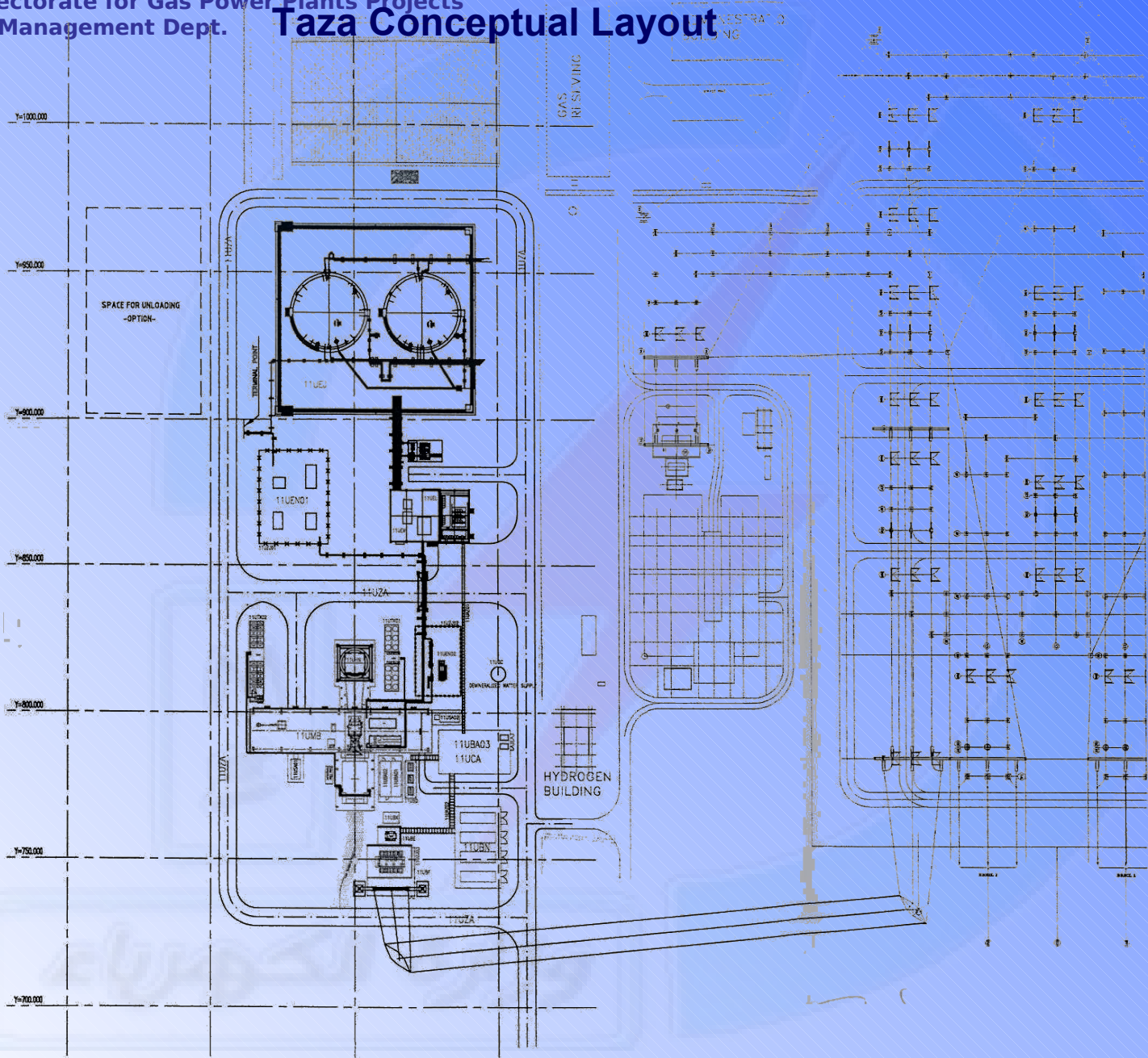
© 2008 Google

35°19'36.57" N 44°19'32.76" E

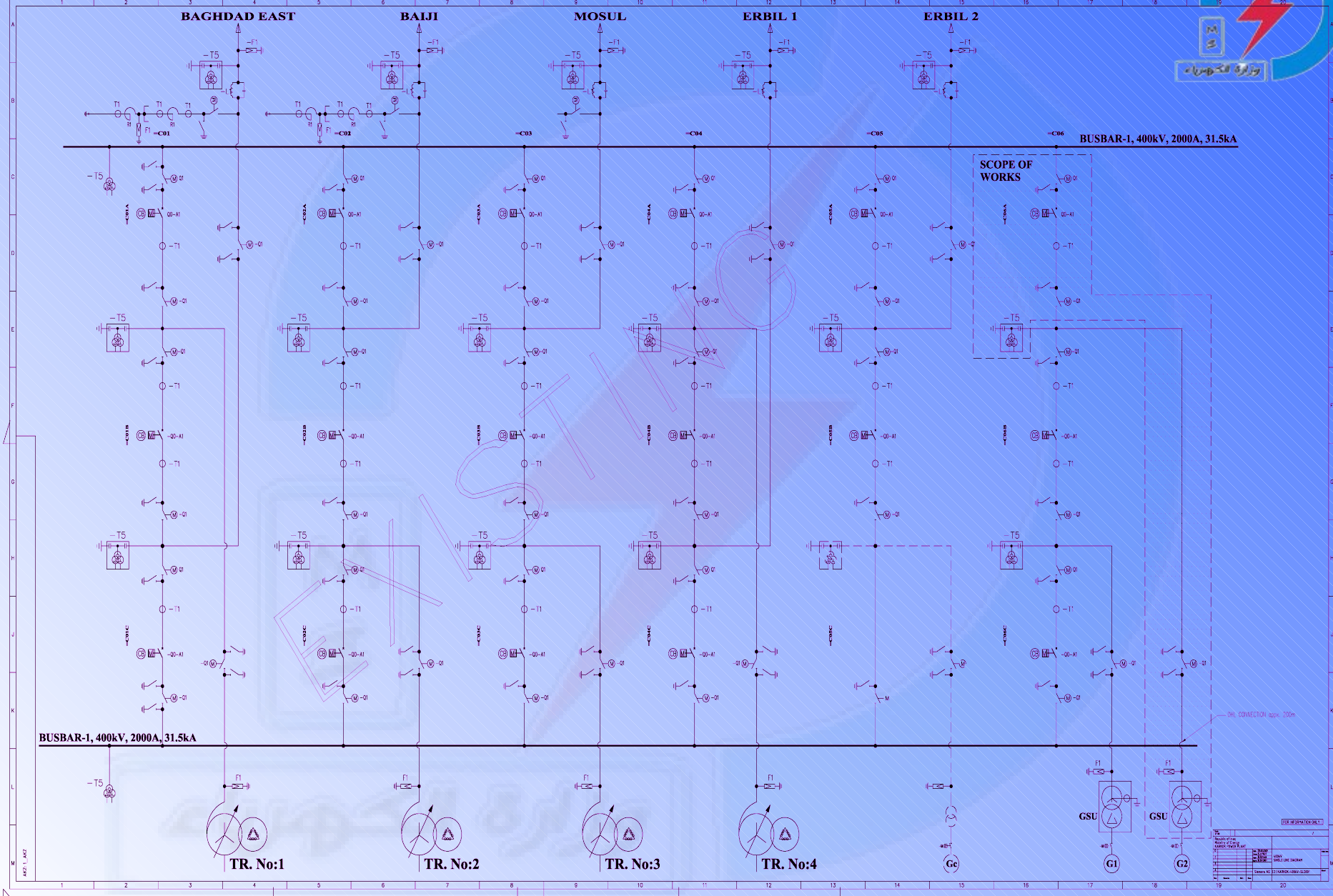
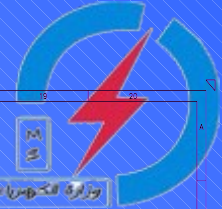
elev 832 ft

Eye alt 3879 ft

Taza Conceptual Layout



Taza Single Line Diagram





Thank You for listening

Ministry of Electricity

General Directorate For Gas Power Plants Projects

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