



nurool DÜNYASI

JULY 2017

"World of Nurool" Turning...

NO

28

NUROL REIT

NEW DISCOVERIES OF
NUROL REIT



N-Light



N-Space

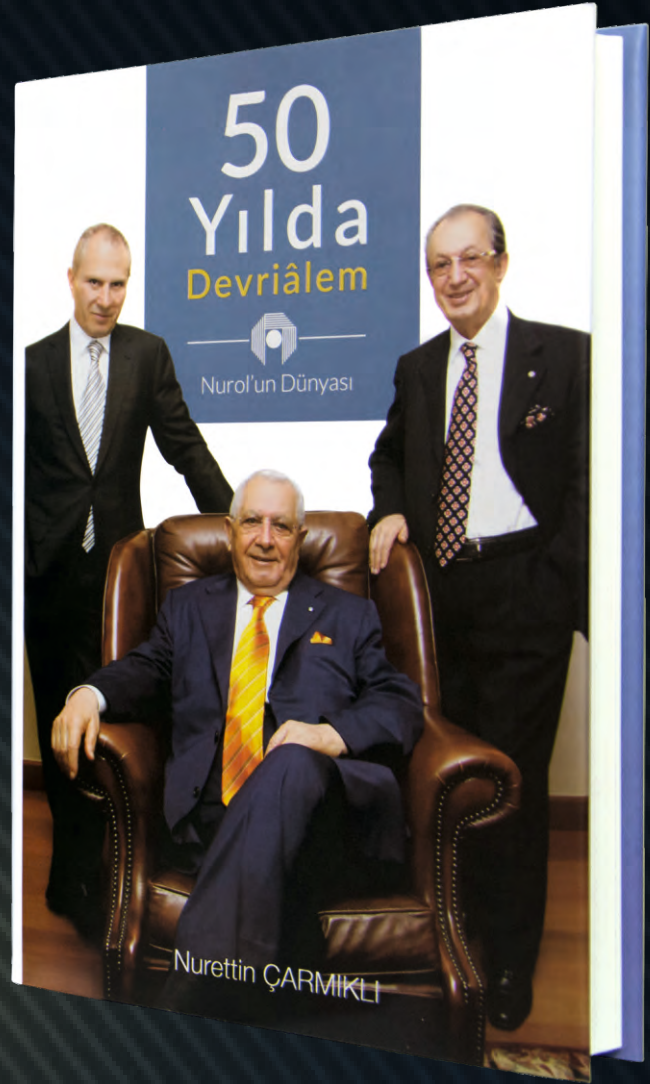
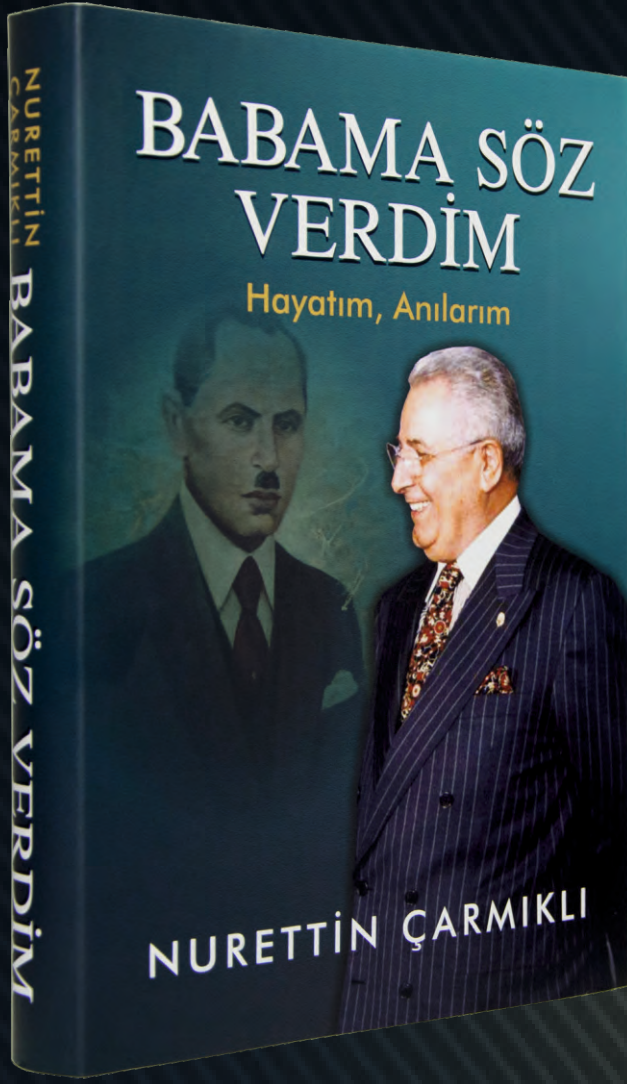


N-Green

A Company of Our Group
Nurol GYO

Interview
Ziya AKKURT

Chairman of the Board of Nurol Investment Bank



“We are celebrating NUROL’s 50th year. As a company, we are having our maturity years. Past 50 years mean also the 50 years of my life. I know very well that when the life span of intuitions is well managed, it will be too long compaing to human life. Again I know very well that NUROL will have second, third and how many 50 years even if I will not be able to see it. Over the last 50 years, we have achieved many works that will serve Turkey for more than 50 years. We constructed roads, dams, bridges, canals, tunnels, residences and armored vehicles. We did as much as we could to help prevent a coup and protect our democracy with the help of these vehicles which we produced. In this book, I do not mention our domestic activities in this book; however, we have made our mark on huge projects of which we are all proud.

NurettinÇARMIKLI

**Anthology of
the Letters of
Thanks**



When we look at the past 50 years, we can see that this period is full of your enthusiasm, hard working and knowledge, which is valuable for the next generations.
Köksal TOPTAN - 23rd President of Grand National Assembly of Turkey



(...) Thank you for your book '50 Yılda Devr-i Alem Nuro'l'un Dünyası' which you wrote in the light of your responsibility as an institution which creates a community for protecting our culture and values. Yours respectfully.
Bülent ARINÇ - 22nd Term President of Grand National Assembly of Turkey



(...) I extend my thanks for your kindful attention, sensibility and your precious book "50 Yılda Devr-i Alem Nuro'l'un Dünyası" which you send kindly. I also wish you healthy, successful and long lasting business with my best regards.
Ali COŞKUN - 58th & 59th Minister of Industry and Trade



I wish you will better many 50 years, health, welfare and happiness.
Edip Safder GAYDALI - Ex-Deputy of Bitlis and Ex-Minister of State



(...) Your setting a goal for your grandchildren to celebrate Nuro'l's 100th birthday shows that how much you love our country and nation. You are not only the heartbeat of Nuro'l family but also the heartbeat of our family and of those who love you. May God grant you and your family a long and happy life...
Ensar ÖGÜT - 22nd, 23rd & 24th Term Deputy of Ardahan



I believe that Nuro'l Community will succeed also in the future and proceed with the same determination improving our service sector. With my best regards.
Serdar ÖZGÜLDÜR - Constitutional Court Member - Honorary President of Court of Conflicts



I congratulate you on your 50th year and thank you for your kind gift.
Salih KAPUSUZ - 22nd, 23rd & 24th Term Deputy of Ankara



**Anthology of
the Letters of
Thanks**



The book "50 Yılda Devri Alem" reflects great knowledge and experience... Thank you very much for your book that is exceptionally precious for me.

Dr. M. Vecdi GÖNÜL - Board Chairman of TURKSAT



Dear Mr. Çarmıklı, thank you for your politeness and your book '50 Yılda Devr-i Alem Nuro'l'un Dünyası' which you send kindly. I would like to say that we share your proud of being both nationally and internationally successful.

Adnan BALİ - General Director of Turkey Is Bank



(...) I would like to thank you sincerely for your book which will be the source of motivation for the new generations of our family.

Osman S. ÇARMIKLI - Çarmıklı Construction Honorary President



(...) As a result of your 50-year journey of valuable entrepreneurship and efforts, a story of Nuro'l Holding's success "50 Yılda Devr-i Alem Nuro'l'un Dünyası' has reached us today. Thank you so much.

Ahmet ÇALIK - Board Chairman of Çalık Holding



Thank you very much for your book "50 Yılda Devr-i Alem Nuro'l'un Dünyası".

Nihat GÖKYİĞİT - Board Member of TEKFEN



Celebrating the 50th birthday of Nuro'l, and also your 50th year in the business world, is such a pleasing feeling that one can only have it by seeing this success. You have turned this feeling to reality.

How happy is Carmıklı Family...

M. Şükrü KOÇOĞLU - Board Chairman of MSK Group



I would like to express my thanks for your precious '50 Yılda Devr-i Alem Nuro'l'un Dünyası' and your special gift which you prepared with carefully your 50th year.

Mehmet Emin KARAMEHMET - Board Chairman of Çukurova Group / Executive Director



I wish you happy 50th year and more successful years in the future. Best regards.

Vahit ERDEM - Board Chairman of Kale Group





I wish our rooted friendship and solidarity with your brothers Erol and Oguz Carmıklı last forever and set an example for everyone. I wish you health and success.

Hüseyin BAYRAKTAR - Honorary Board Chairman of Bayraktar Holding



Your book "50 Yılda Devr-i Alem" is a precious gift and a source of knowledge and experience for me. It is an extraordinary determination, effort and intelligence to sustain to succeed. In your words, it is achieved through living like an ant. I congratulate you with my whole sincerity. Your book has taken place in the most exceptional spot of my library. May God bless you with long and happy life. Best regards.

Yılmaz ULUSOY - Board Chairman of Yılmaz Ulusoy Holding



I want to thank you for your book "50 Yılda Devr-i Alem Nuro'l'un Dünyası" you kindly sent to me on the 50th birthday of Nuro'l Group who has added valuable works to our country. I wish you success, health and happiness.

Recep GENCER - Board Chairman of Gencer Holding



(...) I delightedly bought your book "50 Yılda Devr-i Alem Nuro'l'un Dünyası". I would like to let you know that I will read it with curiosity. I wish you many successful years.

Galip YORGANCIOGLU - Mey Icki CEO



You have so many things that we draw inspiration.

Mustafa SÜZER - Honorary Board Chairman of Suzer Holding



Thank you for showing me your kindness by sending your book "50 Yılda Devr-i Alem Nuro'l'un Dünyası" to me. I, as an old friend, have always been proud of Nuro'l's activities and success.

Tuğrul TOKUŞ



Writing such a precious book, not only record your experiences in history but also create a guide book for next generations that will lead, motivate and open doors for them.

Emre ARACI - Musicologist



As a person who knows what you and your brothers Erol and Oguz achieve for this country, I convey to you my appreciation and admiration. I wish you and your brothers health and your beloved ones a happy year.

Yüksel ERİMTAN - Civil Engineer (m.sc)



“Nurol Construction

Among The Biggest 250”

22 Şubat 2017 - ANKARA



TÜRKİYE CUMHURİYETİ
EKONOMİ BAKANLIĞI

YURTDIŞI
MÜTEAHHİTLİK
HİZMETLERİ
BAŞARILILARI
2016

As Nurol Construction and Trade Corp., we continue to make our country proud by ranking in the high positions also in 2016's "World's Greatest 250 International Contractors" list organized by ENR (Engineering News Record).

Our Chairman Nurettin ÇARMIKLI received the award presented by our Esteemed President Recep Tayyip ERDOĞAN at the ceremony organized by Turkey Contractors Association on 22nd February, 2017.





GRANT HOLDER
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Nurettin ÇARMIKLI

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The World of NUROL is being published
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National

Ilisu DAM, Gebze - Orhangazi - İzmir Highway,
Eyiste Viaduct, Ümraniye - Ataşehir - Göztepe
Metro Construction, Ordu Ring Road

Nurool REIT

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International

Algeria, Morocco, UAE

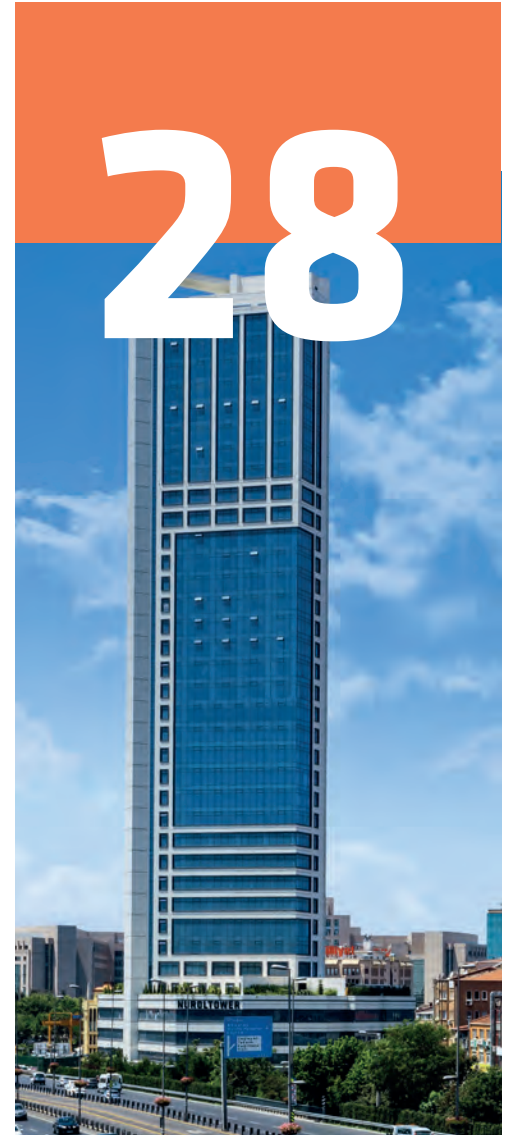
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NUROLPARK

NUROLPARK
OASIS
DESIGNER OUTLET

40 20
No parking
No trucks

NATIONAL



Ilisu Dam and HES Project

Project Manager: Sezayi CIFTCI

According to Directorate General For State Hydraulic Works (DSI) it has the world's longest dam crest in Concrete Covered Front Facade Rock Fill Type and will be the 4th biggest dam with installed power. Construction works of 1.200-MW Ilisu Dam and HES Project are proceeding even today where terrorism is at its most intensive in Southeast thanks to NUROL - Cengiz consortium.

Ilisu Dam and HES Project are among the biggest hydraulic structures in our country's centennial vision and constitute one of the two feet of GAP Project (Southeastern Anatolia Project).

Ilisu Dam has 131-meter-height from the base and 1.200-MW installed power. It will produce approximately 4,12 billion kWh energy annually. Total 23,76 million m³ of body stuffing and total 104.000 m³ of front facade concrete have been completed. Total physical realization of Ilisu Dam has reached 93%.

Ilisu Dam and HES, which cost 1 billion € in total, will make a contribution worth 1,3 billion TRY to national economy only by producing electrical energy. Thanks to the contribution of Ilisu Dam to national economy in the fields of irrigation and energy, the locals will prosper and their life style and quality will change for the better. The project will be the remedy for unemployment in the area by providing employment area for 4.000 people and means of living for another 28.000 including their families. In addition to its being a project about agriculture and energy, it will substantially contribute to the cultural, economic and social development of the area.

DSI General Director Murat Acu and the accompanying committee analyzed the area on which reposition operations of City of Hasankeyf were held in the context of Ilisu Dam and HES construction in April 8-9th, 2017.

Within the scope of Ilisu Dam and HES projects and with the participation of General Manager Acu, 450-ton and 8.150-mm-diameter rotor was landed in power house unit 1 with a ceremony, which is one of the most important steps in electromagnetic montage.



NATIONAL

nurol
CONSTRUCTION and TRADING CO. INC.

Gebze - Orhangazi - İzmir Motorway Construction

Project Manager: Yavuz YONTEM

Gebze - Orhangazi Section



The construction works within the scope of contract that NUROL signed with NÖMAYG (Employer) for the construction works of section approximately 9 km length that takes place between Gebze - Orhangazi (Ch: 34+350-43+296) of "Gebze - Orhangazi - İzmir Motorway (Including Izmit bay suspension bridge and access roads)" (Figure 1), which is constructed under Build-Operate-Transfer model under the obligation of Otoyol A.Ş. (Company In Charge) has been completed by the end of March 2016. This section of motorway was opened to the traffic on April 2016. Responsibility area of NUROL takes place between Samanlı Tunnel exit and Orhangazi settlement. (Figure 2). Earth works, structures, geotechnical works, landscape, toll collection and secondary works (utility relocations, service and park areas) are under the responsibility of NUROL, pavement works are excluded. In addition to service area on Ch:37+500, K4 Junction and toll collection area were constructed on Ch: 40+000 of the Motorway.

PROJECT (KM: 34+350 - 43+296)	
EXCAVATION	:6.201.579 m ³
FILL	:6.304.983 m ³
ROCK FILL	:469.487 m ³
BORED PILES	:3.051 m
WICK DRAIN	:52.880 m
BOX CULVERT	:17 nos
UNDERPASS	:16 nos
BRIDGE	:2 nos
PEDESTRAIN OVERPASS	:1 nos
U TYPE RC CANAL	:9 nos
RETAINING WALL	:2 nos

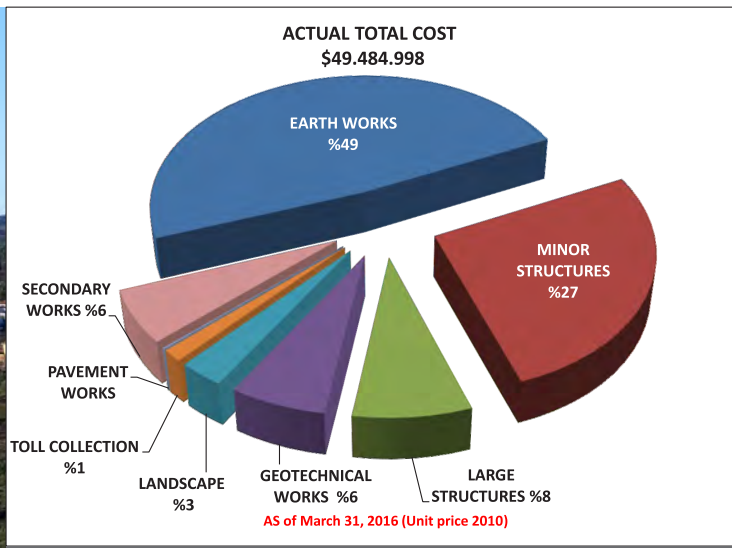
Table 1

QUANTITIVE REALIZATIONS			
	Revised Quantity	Quantitive Realization	Realization %
1. EARTH WORKS			
1.2 EXCAVATION	6.046.550 m ³	6.201.579 m ³	102%
1.2 FILL	6.039.167 m ³	6.304.983 m ³	104%
2. MINOR STRUCTURES			
2.1. CONCRETE	66.530 m ³	66.767 m ³	100%
2.2 REBAR	6.075 m ³	6.097 m ³	100%
3. LARGE STRUCTURES			
3.1 CONCRETE	13.724 m ³	13.749 m ³	100%
3.2 REBAR	2.075 m ³	2.077 m ³	100%
4. GEOTECHNICAL WORKS	451.959 m ³	469.487 m ³	104%
5. LANDSCAPE	\$ 2.134.334	\$ 1.616.686	76%
6. TOLL COLLECTION AREA	\$ 950.000	\$ 656.981	69%
7. SECONDARY WORKS	\$ 2.931.256	\$ 3.069.065	105%
7.1 UTILITY RELOCATIONS	\$ 2.931.256	\$ 3.069.065	105%
7.2 SERVICE&PARK AREA			
7.3 MAINTENANCE CENTER			

Table 2

Actual total cost of the project is 49.484.998 USD as per 2010 unit prices and distribution of the total amount according to work items are shown at the graphic 2.

Within the scope of the project 6 million m³ excavation and fill, over 90.000 m³ concrete and over 8.000 tonnes of structural reinforcement works were completed. Total works are shown on Table 1 in detail and quantitative realizations as of end of March 2016 are shown on Table 2. Finishing works were completed on main road, service and toll collections areas besides landscaping. Junction lightings, guardrail, ROW fence, traffic signs and road markings were constructed by NOMAYG(Employer).Final account works for this section is under progress.



Graphic 1



NATIONAL

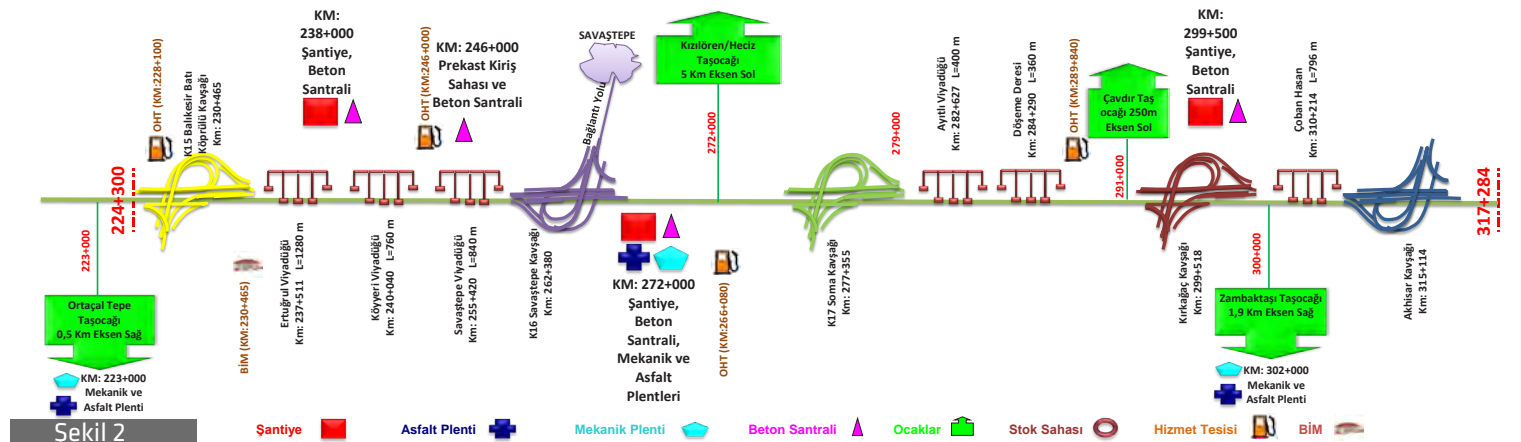


Gebze - Orhangazi - İzmir Motorway Construction

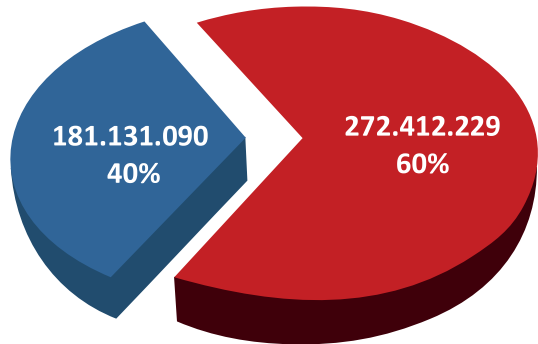
Balıkesir - Kırkağaç - Akhisar Section

Under the contract which was signed between NOMAYG (employer) and NUROL, construction works on approximately 93 km of motorway between Balıkesir - Kırkağaç - Akhisar (Ch: 224+300-317+284) as a part of Gebze - Orhangazi - İzmir - Motorway (Including Izmit bay suspension bridge and access roads commenced as of April 2015. In this section 5 junctions and toll collection areas are taking place which connect the motorway to Balıkesir, Savaştepe, Soma, Kırkağaç, Akhisar settlements. In addition there are 4 service facility areas which are placed on both directions as type A(1), type B(1) and type D(2). (Figure 3)

BALIKESİR - KIRKAĞAÇ - AKHISAR KESİMİ (KM:224+300 İLE KM:317+284 ARASI)



PROJECT CONTRACT VALUE \$454.543.319



As of May 2017

■ Completed ■ Remaining

Graphic 2



Within the scope of the project with a total contract values of \$454.543.319 as per 2010 unit prices, earth works, minor and large structures (6 viaducts with a total length of 4.436 m.), pavement works (wetmix and hotmix), geotechnical works, landscaping, toll collection and secondary works (utility works, service and parking areas, maintenance centers) will be constructed. Traffic signs, road marking, guardrail and Row fence constructions are excluded and will be contracted out by NÖMAYG separately. Coordination and supervision of the construction works of those items will be on responsibility of NUROL.

By the end of 2016 project goals has been mostly accomplished. Works on minor and large structures, earthworks, viaducts, drainage, pavements and prestressed beams are proceeding on all sections as of February 2017. 40% progress were realized on construction works since the beginning of the project (Graphic 4). Quantitive amounts in project and realizations as of end of May 2017 are shown at Table 4.

According to planning of 2017, 6,9 million m³ excavation on main road, 5,5 million m³ borrow pit excavation, 600.000 m³ topsoil excavation, 10,7 million m³ fill, 198.000 m³ reinforced concrete, 41.000 m³ surface drainage concrete, 1.690 number of prestressed beams, 6.300 m. bored pile, 1.600.000 tonnes wetmix pavement, 700.000 tonnes hotmix pavement and utility relocations are planned to be completed.

End date is 31.12.2018 according to contract.

STRUCTURES BETWEEN KM: 224+300 AND 317+284

TYPE	PIECE
Box Culvert	224
Underpass	77
U type RC Canal	11
Retaining Wall	4
Underpass Bridge	16
Overpass Bridge	23
Viaduct	6
Prestressed Beam	3.319
Bored Pile (m)	19.102 m

Table 3

	TOTAL QUANTITY CH: 224+300 - 317+284	COMPLETED QUANTITY As of May, 2017
Excavation	23.873.156 m ³	18.342.896 m ³
Fill	26.173.996 m ³	15.662.409 m ³
Borrow pit Excavation	7.857.939 m ³	1.611.393 m ³
Concrete	908.784 m ³	574.602 m ³
Pavement - Wet Mix	4.345.554 tonnes	287.257 tonnes
Pavement - Hot Mix	2.289.089 tonnes	78.173 tonnes

Table 4

NATIONAL



Eyiste Viaduct Project

Project Manager: Alper OZKAN

The tender related to the Eyiste Viaduct has been conducted by the KGM on November 21st, 2016 and the contract has been awarded to Nurool Construction and Trading Co. Inc. Main contract has been signed on December 15th, 2016 and the contract duration of 1.100 days has been commenced on December 29th, 2016 triggered by the issuance of construction site delivery letter by the KGM.

Within the scope of the project, a bridge with a length of 1.372 meters and a total width of 25 meters will be constructed. The superstructure will be constructed on 2 abutments and 8 piers with varying heights between 31 meters and 155 meters.

Mobilization works and selection of subcontractors and vendors are in progress in accordance with the work schedule. Construction is planned to be commenced within April 2017.



Nurettin AKDENİZ, Tayfur İKİZÜNAL (Official of General Directorate of State Highways)

Ümraniye Ataşehir Göztepe Underground

Construction and
Electromagnetic Systems
Supply, Montage and
Commissioning

Project Manager: **Ufuk YAPICI**

“Ümraniye-Ataşehir-Göztepe Metro Construction and Electromechanical Systems Procurement, Installation & Commissioning Works” project, tendered by Istanbul Metropolitan Municipality on 3th March 2017, was awarded to Nurol-Gülermak Joint Venture who submitted the best offer. The contract was signed with the Employer on 14th April 2017 and the construction works commenced following the site handover on 28th April 2017.

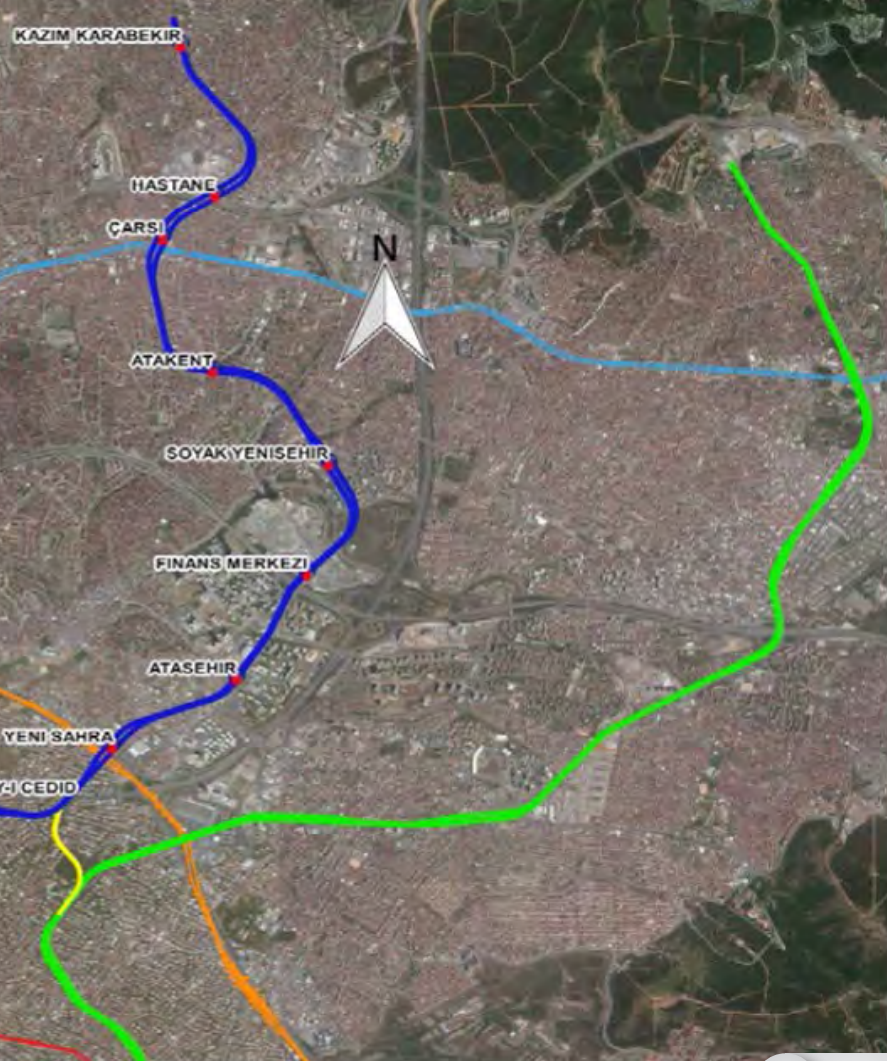
The scope of the project includes the implementation of 13 km single line twin tube tunnel with TBM method, 2 tunnels for train depots and 1 connection tunnel (NATM) along Ümraniye-Ataşehir-Göztepe route. The project also comprises of the construction of 11 metro stations. The duration of construction is 1.020 days starting from the date of the site handover and, following the completion of the works, provision of operation and maintenance supervision services for a period of 24 months, preparation of operation and maintenance manuals, the procurement of spare parts and consumables for 2 years as well as procurement of special tools and equipment, training on site and abroad are also in the scope of the contract.”

Lejand

- Ümraniye-Ataşehir-Göztepe Metro İstasyonu
- Ümraniye-Ataşehir-Göztepe Metro Hattı
- Dudullu-Bostancı Metro Hattı
- Marmaray Hattı
- M5 Üsküdar-Çekmeköy Metro Hattı
- M4 Kadıköy-Kartal Metro Hattı
- Ümraniye-Ataşehir-Göztepe ve Dudullu-Bostancı Metro Hatları Bağlantı Tüneli



Umraniye - Atasehir - Goztepe Underground Construction and Electromagnetic Systems Supply, Montage and Commissioning signing ceremony



NATIONAL



Ordu Ring Road Project

Project Manager: Naci ASILKAZANCI

Ordu Ring Road Project, launched in March 20th,2012 and carried out by Nurool-Yüksel-Özka-YDA Partnership, separates from Akcaova River, passes through a tunnel under Boztepe, drives on a viaduct over Civil Creek, Melet River and Turnasuyu and finally connects to the coast road after Turnasuyu Village. Total project length has reached 21,4 km from 19,1 km with a change in the route.

On Ordu Beltway, which will be constructed as 26-meter platform wide and 2x2 divided road, are 7 viaducts 3.105 m in total, 6 18.759-m-long tunnels (single cube), 6 intersections 3 of which are bridged.

Up to now, in spite of the bad weather conditions, 11.816 m (single cube) tunnel excavation has been completed and belt concrete coverage of 10.659-meter-long tunnel has been done. Superstructures of 3.311-m Boztepe Tunnel (double tube) and 2.019-m Oceli Tunnel have been completed on bituminous treated base level. The construction of Civil Viaduct, Karadere Bridge, K1 Intersection Bridge, Persembe Intersection Overbridge and Coach Station Intersection Bridge has been completed and these bridges and viaducts have been made ready for superstructure. Construction process of Oceli 1 and Oceli 2 viaducts continues. In addition to these, construction of works of craft, earthwork operations, soldier pile production included in the project to prevent landslide and support chamfer, superstructure and other works are proceeding.

Final acceptance process of the highway started in March 10th, 2017. It is expected to be completed until the end of March.





Gebze - Orhangazi - İzmir Motorway

The tender for the Gebze-Orhangazi-İzmir Motorway Project (including İzmit Bay Crossing and Connection Roads) was made on 9 April 2009 and the 22 years 4 months construction and operation offer was determined as the best and final.

Implementation Contract was signed on 27 September 2010 between General Directorate of Highways and OTOYOL YATIRIM ve İŞLETME A.Ş.. Following the signing of the contract OTOYOL A.Ş. has started to construction with the use of equity in line with Implementation Contract. As of 5 June 2015, the entire financing requirement of the Project has been completed. Construction works continue to accelerate.

A total of approximately 6271 personnel are employed in the Gebze-Orhangazi-İzmir Motorway Project in the direction of January 2017 month data.

A total of 433 km motorway is being constructed as 384 km motorway and 49 km connection roads.

Project Characteristic Information:

- Motorway Main Body: 384 km
- Existing Bursa Ring Road (Open to Traffic): 21 km
- Total Motorway Main Body: 405 km
- Connection Roads: 49 km
- Intersection Roads: 140 Km
- Side Roads: 26 Km

Current Structure Summary of Ongoing Design Studies

MAIN CONSTRUCTION ITEMS	TOTAL NOS
SUSPENSION BRIDGE	1
TUNNEL	3
VIADUCTS	38
Reinforcement	36
Steel	1
Composite	1
BRIDGES	175
Overpass	88
Underpass	47
Hydraulic	39
Composite	1
BOX CULVERTS	987
Box Culvert (Underpass)	284
Box Culvert(Hydraulic)	703
INTERSECTION	24
MOTORWAY SERVICE AREA	18
MOTORWAY OPERATION - MAINTENANCE FACILITY	4
TUNNEL OPERATION FACILITY	2

*3 nos intersections including Existing Bursa Ring Road.



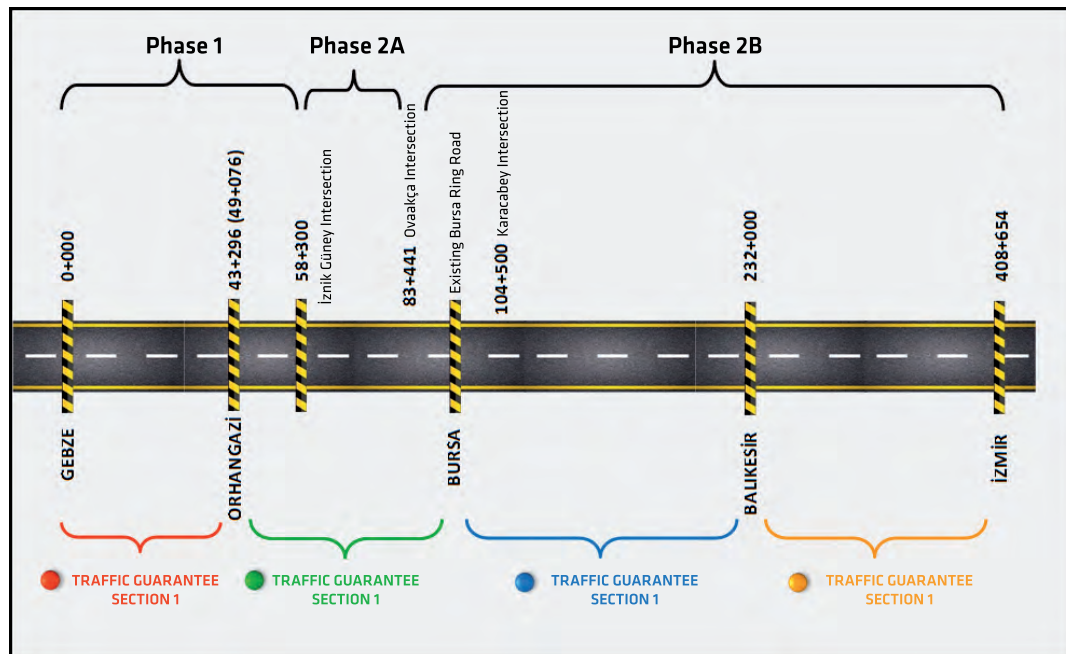
NATIONAL



Current Structure Summary of Ongoing Design Studies Based City Boundaries:

PROVINCIAL BORDER	KOCAELI		VALOVA		BURSA		BALIKESİR		MANİSA		İZMİR		GENEL	
	TOTAL NOS	TOTAL LENGTH (m)	TOTAL NOS	TOTAL LENGTH (m)	TOTAL NOS	TOTAL LENGTH (m)	TOTAL NOS	TOTAL LENGTH (m)	TOTAL NOS	TOTAL LENGTH (m)	TOTAL NOS	TOTAL LENGTH (m)	TOTAL NOS	TOTAL LENGTH (m)
SUSPENSION BRIDGE	1	2.907,00	0	0,00	0	0,00	0	0,00	0	0,00	0	0,00	1	2.907,00
TUNNEL	0	0,00	1	3.588,61	1	1.247,96	0	0,00	0	0,00	1	1.610,00	3	6.446,57
VIADUCT	1	253,5	6	4.340,36	17	7.627,21	9	5.145,41	3	1.556,50	2	1.610,00	38	21.558,51
BRIDGE	6	790,86	11	638,00	40	2.807,24	29	1.532,60	65	4.316,40	24	2.635,53	175	11.356,80
BOXCULVERT	16	621,73	55	4.035,73	290	21.886,09	247	17.109,00	314	19.860,01	65	1.271,70	987	68.610,93
INTERSECTION	1	0,00	2	0,00	5	0,00	5	0,00	6	0,00	5	0,00	24	0,00
MOTORWAY SERVICE AREA	1	0,00	1	0,00	7	0,00	5	0,00	4	0,00	0	0,00	18	0,00
MOTORWAY OPERATION - MAINTENANCE FACILITY	0	0,00	1	0,00	0	0,00	2	0,00	1	0,00	0	0,00	4	0,00
TUNNEL OPERATION FACILITY	0	0,00	1	0,00	0	0,00	0	0,00	0	0,00	1	0,00	2	0,00

The project consist of 3 phases; Phase 1, Phase 2A and Phase 2B are as follows.





Construction of a total of 98 km of the Project has been completed:

Phase 1 (Main body length approx. 53 km, between Gebze - Gemlik intersections)
 Suspension Bridge (Osmangazi Bridge), Southern and Northern Approach Viaducts and Orhangazi Tunnel are the most important structures in Phase 1. Osmangazi Bridge, the world's largest main span suspension bridges with 1550 m main span length.

NO	BRIDGE NAME	COUNTRY		MAIN SPAN
1	AKASHI KAIKYO BRIDGE	JAPAN	1	1991m
2	XIHOUMEN BRIDGE	CHINA	2	1650m
3	GREAT BELT BRIDGE	DENMARK	3	1624m
4	OSMANGAZI BRIDGE	TURKEY	4	1550m



NATIONAL



Suspension bridge construction works are included in the following tables based on main construction quantities.

PROCESS TABLE OF TOWER FOUNDATION, ANCHORAGE AND CAISSON						
Work Items	Unit	Planned Total Quantity	Realization	This Period	Total Realization	General Progress
South Anchorage Excavation	m ³	89.300	89.300		89.300	100%
North Anchorage Excavation	m ³	37.125	37.125		37.125	100%
South Tower Foundation Excavation	m ³	50.000	50.000		50.000	100%
North Tower Foundation Excavation	m ³	25.547	25.547		25.547	100%
South Tower Foundation Pile	NOS	195	195		195	100%
North Tower Foundation Pile	NOS	195	195		195	100%
South Anchorage Concrete	m ³	85.808	85.808		85.808	100%
North Anchorage Concrete	m ³	36.016	36.016		36.016	100%
South Tower Foundation	m ³	21.295	21.295		21.295	100%
North Tower Foundation	m ³	21.295	21.295		21.295	100%

PROGRESS TABLE OF STEEL WORKS						
Work Items	Unit	Planned Total Quantity	Realization	This Period	Total Realization	General Progress
Fabrication						
Steel Shaft	TON	2.072	2.072		2.072	100%
Tower Panel	NOS	400	400		400	100%
Deck Panel	NOS	3.246	3.246		3.246	100%
Main Cable	TON	19.300	19.300		19.300	100%
Hanger Rope	TON	740	740		740	100%
Erection						
Steel Shaft	NOS	4	4		4	100%
Tower Block	NOS	100	100		100	100%
Beck Segment	NOS	132	132		132	100%
Main Cable	NOS	224	224		224	100%
Hanger Rope Clamps	NOS	202	202		202	100%
Hanger Rope	NOS	210	210		210	100%
Saddles	NOS	12	12		12	100%



Amounts realized on the basis of main construction items for Phase 1 are as follows:

STRUCTURE TYPE	QUANTITY
Main Motorway Length	: -52,5km
Suspension Bridge	: 1 NOS /2.907 m
Tunnel	: 1NOS/3.522m
Viaduct	: 8 NOS/4.922 m
Bridge	: 12 NOS/528m
Overpass	: 15 NOS/1.397m
Boxculvert	: 98 NOS/6.171 m
Underpass	: 49 NOS/3.015 m
Intersection	: 5 NOS
Motorway Service Area	: 3NOS
Motorway Operation - Maintenance Facility	: 1 NOS
Tunnel Operation Facility	: 1 NOS



As of 30 June 2016, the construction of Phase 1 was completed and opened to traffic. Phase 2 A (Main body length approx. 25 km, between Gemlik - Çağlayan (Existing Bursa Ring Road) intersections) Selçukgazi Tunnel is located in Phase 2 A. The construction and acceptance of Phase 2 A has been completed. It has been opened to operation since 12 March 2017.

Amounts realized on the basis of main construction items for Phase 2 A are as follows:

	Total Nos	Total Length	Completed Nos
Viaduct	6	4.502	6
Underpass	8	500	8
Overpass	9	199	9
Bridge	5	260	5
Box Culvert	48	4.824	48
Tunnel Construction (Selçukgazi)	1	1.025	1
Intersection	1		1
Service Area	1		-



Phase 2 B (Main body length approx. 306 km, between Existing Bursa Ring Road Karacabey - İzmir Karasuluk intersections) Belkahve Tunnel is located in Phase 2 B.

The construction and acceptance of 20 km section of Phase 2 B between (Balıkesir-Edremit)-İzmir Kemalpaşa Karasuluk intersections has been completed. It has been opened to operation since 8 March 2017.

Note: Kemal Paşa State Connection Road junction located within the abovementioned 20 km section was opened to traffic on 20 October 2015. Amounts realized on the basis of main construction items for the abovementioned 20 km section are as follows:

	Completed Nos
Reinforcement Viaduct	2
Underpass	28
Overpass	-
Bridge	1
Box Culvert	74
Tunnel Construction (Belkahve)	1
Intersection	2
Service Area	-

NUROL REIT



I believe that every action we perform and every mark we leave behind should serve people's happiness and this beautiful world.



Nurettin ÇARMIKLI



Founded in 1997 with the strength and experience taken from our roots, Nurol GYO has one goal:

To create solutions that make people feel good.

Because everyone can develop a project.

Nurol GYO, above all, designs projects which help people have better lives both psychologically and physically.

It discovers new ways of feeling good by focusing on the human psychology and community sociology.

It nurtures life and always recreates well being with the inspiration taken from life itself.

Nurol GYO
What A Beautiful Life

While doing our jobs we always ask ourselves this question:

How can we make you feel better?



Nurol GYO has brought its human-focused solutions into use of whole real estate development sector with an out-of-the-box approach and full responsibility. Nurol GYO, promising pleasing results in every project it brings to life, introduces its new solutions N-Light, N-Space and N-Green along with its new brand ambassador to us via Nurol GYO Board Members Ceyda CARMIKLI KILICASLAN, Semih KAYAALP and Marketing Director Mustafa TAYFUN. Seeing as a responsibility to convey its experience and knowledge achieved by its worldwide projects into the sector, Nurol GYO has detailed its aims of determining standards about 'Natural Sunlight', 'Space' and 'Eco-Sites'.

What is the reason behind Nurol GYO's existence?

In the sector within which mainly financial numbers, project sizes and project locations are discussed, we have introduced our human-focused approach to the public with a meeting all of our shareholders participated. As Nurol GYO, we are not a firm which only put quality structures into practice. We are a firm which affects human psychology positively, spreads positive energy, provides happiness and peace and develops life quarters with the strength and knowledge we take from Nurol Holding which succeeds in national and international projects with more than 50-years experience.

Nurol Solutions, which you also call N-Solutions. Could you please tell us its story?

We do not accept fitting in the place that is set for the sector. People need more than four walls around them and it is absolutely wrong to see real estate only as an investment. You should always remember that the core of this work is people. The house we live or the office we work in is more than a shelter. Numerous studies around the world prove that natural sunlight has a direct effect on the serotonin and melatonin hormones in our body. These are the main elements determining our happiness, emotional status, depression, creativity, productivity, attention, social relationships and appetite. Thus, it is of vital importance to provide sufficient amount of sunlight to indoors which we spent 80% of our time. The results

of the study conducted by Toronto University in 2015 show that buildings with high ceilings stimulate people's senses positively and enrich their creativity. It is also seen that high-ceilinged houses are perceived bigger than low-ceilinged ones thanks to the fact that the former receive more sunlight.

Roger Ulrich, who is one of the most prominent professors known for his research about Design-Environment-Human relation, says that people gain psychological benefits through not only bonding with green areas (parks, gardens etc.) in the city but also getting into physical and visual contact with nature in their living quarters. Studies about the environmental psychology clearly prove that having green areas nearby has crucial psychological benefits to people.

What do these solutions bring?

Our biggest aim with N-Solutions, which we will change the dynamics of real estate development sector, is to help people in our projects lead a happy, healthy and peaceful life. As Nurol GYO, we scientifically put forward our solution "N-Light" (Nurol Light Solution) carrying the maximum amount of sunlight to indoors, our solution of interior and exterior place design "N-Space" (Nurol Space Solution) making people feel spacious and our solution "N-Green" (Nurol Nature Solution) creating a culture compatible with nature.

Could you please inform us about your N-Light solution?

“Europe Light Standards” in Nurool GYO Projects with N-Light Solutions we know there is a relationship between our happiness and sun light. For this reason we named Nurool Light Solution “N-Light”, which aims at maximum benefit from sunlight indoors. All the buildings in Europe are designed inline with natural sunlight standards. Their suitability is also examined with light tests. Although we lack general awareness and legal responsibility in our country, we provide our residents with maximum space to have the needed sunlight, make it possible for them to feel psychologically and physically good. N-Light solution both carries sunlight indoors exuberantly and decreases the cost of heating, which makes it budget-friendly.

How do you use N-light in your projects?

- Designing appropriate for European Lighting Standards
- Europe Light Test to Control
- Locating all the shops and stores on the ground so that they receive maximum amount of sunlight
- Putting up buildings in the project area in such a way that they do not prevent one another’s sunlight
- Placing all the social facilities on the ground
- Using high windows with large facades
- Preferring mostly South-West and South-East facades in unit placements

What does N-Space solution tell us?

We do not only deal with square meters but also design capacious bodies. The relationship between residence and the feeling of freedom is crucial. It is not enough to design structures from only square meter perspective. It is necessary to have a capacity (cubic meter) approach that gives you relief. We, in collaboration with our engineers and architects, have developed designing solutions that bring the capacious feeling of nature to our interior and exterior places. With our integrated design solutions, we have also discovered new approaches that will create extra free time taking into account our daily needs.



N-Light



N-Space



N-Green

How do you use N-Space in your projects?

- High ceilings
- Large landscape and walking areas
- Floor plans to minimize the lost space
- Easy access to daily needs (food, beverage, shopping + saving of time)
- Open-air Mall
- Location facing the large view giving comfort
- Multiple project entrances
- Use of a number of fast elevators (+ Saving of Time)
- Wide terraces and balconies
- Large reception and recreational facilities

Could you tell us about your N-Green solution?

Thanks to permaculture we will promote from being a consumer to an inventor. With our N-Green solution we aim to create a cultural structure allowing for a life with nature. We not only apply solutions minimizing the use of our resources with N-Green (Nurool Nature Solution) but also create gardens that touch the earth and enable you to socialize. Permaculture is a holistic science of design enabling you to build sustainable human settlements. Permaculture cares about the earth and human beings and provides productive use of resources. Thanks to permaculture, people can promote from a consumer to an inventor. With our permaculture experts, we establish Eco-Sites which bring together nature and people.

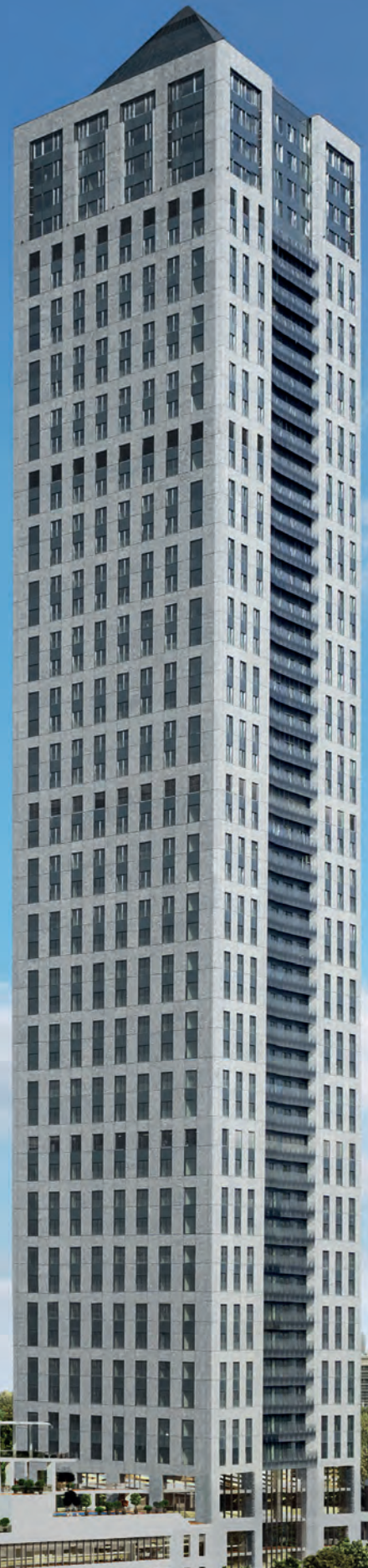
How do you integrate N-Green into your projects?

- Permaculture Workshops
- City Gardens
- Indigenous seed sharing
- Effective use of resources
- Large landscapes
- Use of natural materials
- Conformity with eco-friendly “Leeds Gold Certificate”
- Electric car charge units
- Encouragement of less carbon emission with the help of bicycle parking areas and douche units

NUROLLIFE

Seyrantepe

Parcel Area:	9.525 m ²
Construction Area:	138.000 m ²
Project Type:	Residence-Office
Number of Residences:	440 residences, 26 terrace houses
Office Area:	15.829 m ²
Location:	Seyrantepe
Architect:	Hakan Kiran Architecture
Interior Design:	Autoban
Mechanical Project:	Dynamic Project
Electricity Project:	HB Electric
Static Project:	AYS Engineering / Mehardt
Static Consultancy:	Meinhardt



WHY ARE WE HERE?



We are on Maslak-Levent line, one of the central locations.

We are in a very notable area which returns you your time with its new transportation solutions.

We are on Cendere Street through which you can easily reach all the three bridges.

We are on one of the locations with the fastest means of transport to the 3rd Airport. Hospitals, Malls and amusement-culture centers are our neighbors.

We are the exact project for those who want to say "What A Beautiful Life".



FROM ARCHITECTET VIEW NUROL LIFE

We have developed solutions that bring together the advantages of both high-rise and low-rise buildings in the same project.

We designed an eco-friendly project which protect and improve both physical and psychological health of its residents.

We rejected square meter approach and focused on cubic meter. We constructed spacious structures that will be good for todays city people who feel stuck.

Our strong approach of making an unbreakable bond between the nature, our residents and buildings has become one of our main principles which determine every detail from the materials we use to the windows we design.

We believe that we have introduced a project that will be appreciated and preferred even after years.

NUROL LIFE PRIVILEGES



We invite everyone back to the city by serving a natural life in the city center in NuroL Life.



Forest view



Fast access in tower with 23 elevators that go 4 meters in 1 second



Breathing facade



2.5-meter-long inward-opening windows and balconies



4-meter ceiling height



Large lobby with 9-meter ceiling height

Console
Game Room

Roof Bar

Work and
Meeting
Room

Premium Food
Service

Pet Care

Concierge
Services

Guest
House

Cinema

Gym

Spa, Sauna and
Steam Room

Terrace Pool and
Cafe

Yoga and
Dance
Studio



NUROLPARK

Basin Ekspres

Parcel Area: 55.268 m²

Landscape Area: 22.000 m²

Construction Area: 321.500 m²

Project Type: Mixed-Use

Number of Independent Units: 1186 Residences, 119 Offices, 326 suits

Number of Stores: 83

Location: Basin Ekspres/Gunesli

Architect: Oncuoglu Architecture

Landscape: Dalokay Design

Mechanical Project: Metta Engineering

Electricity Project: EMT Engineering

Static Project: Nodus Engineering

TÜRKİYE İŞ BANKASI

PARKOFİS

WHY ARE WE HERE?



We are at Basın Ekspres which is known as the new Maslak line and has big opportunities.

We are so close to Ataturk and 3rd Airport.

We are in the midst of 4-5-star hotels, 30 in service and 20 under construction.

We are in an area that will be more valuable day by day thanks to 5 congress centers and Istanbul Faculty of Medicine.

We are the neighbor of Aydın, Arel, Kemerburgaz, Kültür, Medipol Health and Sebahattin Zaim Universities and also CNR Fair Center which is the biggest trade center of Europe.

We are the exact project for those who want to say "What a Beautiful Life".



FROM ARCHITECT VIEW NUROL PARK

Today, life quarters which are disconnected to their surroundings pave the way for long-term psychological and physical problems.

We supported the idea that a life with which everyone is contented should first be connected to its surroundings. We analyzed modal urban transformation projects.

We took the urban transformation solutions in Barcelona which we thought was the best for Istanbul.

Finally we developed a natural solution connected to its surroundings. Therefore both the residents will feel good in every aspect and life will be better and more natural thanks to the positive development of the area.

We have a claim here: It is possible to make a human-focused, ergonomical and natural mixed-use project.

Istanbul needs to find its own life formula and be renewed to get better and continue its magical journey. We believe that we have made an original contribution to this journey with Nurol Park.

NUROL PARK PRIVILEGES



At Nurool Park, we are reassuring the details that render life valuable.



Colorful Life



Total 43.200 m², i.e. 78%, of the project consist of landscapes and walking areas.



Green Areas



Oasis Designer Outlet



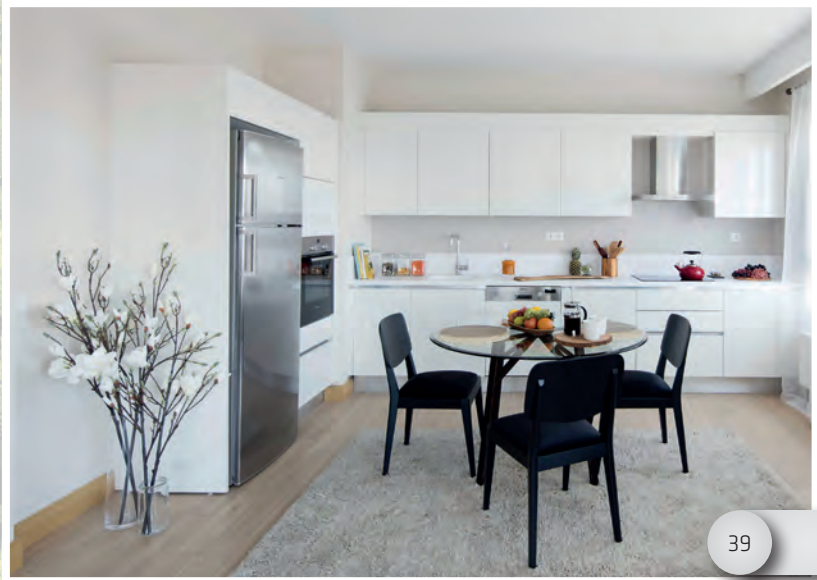
Street Culture



FIRST DESIGNER
OUTLET OF TURKEY



Local and foreign brands
famous for their designs



NUROLTOWER

Mecidiyeköy

Parcel Area:	6.500 m ²
Construction Area:	74.682 m ²
Project Type:	Office - Residence
Number of Independent Units:	270
Number of Stores:	19
Location:	Mecidiyeköy
Architect:	Pyramid Architecture / Turgut Toydemir

LEED GOLD



LEED GOLD ADAVI

WHY ARE WE HERE?



We are in the city center, Mecidiyeköy. We are so close to metro-metrobus line and Bosphorus Bridge.

We are next to the business centers.

We are neighbors to Istanbul Çağlayan Courthouse and Florence Nightingale Hospital.

We are the exact project for those who want to say "What A Beautiful Life".



FROM ARCHITECTS VIEW NUROL TOWER

We analyzed employee psychology and produced architectural solutions for happy, productive people.

We provide maximum sunlight by designing large-facaded offices with no north facades. Thanks to the flexible structure of the project, each floor can be interconnected. Therefore as the companies grow, they will not have to move but go on existing in the same culture.

We created a warm and spacious atmosphere with 9-meter-high ceilings at the entrances and 4-meter-high ceilings at the offices.

We placed numerous fast elevators to minimize wasting of time in a busy working life.

We gave you an opportunity to socialize in the common area on 17th floor.

We believe that we developed a fulfilling project by combining the offices and the malls, which employees can easily meet their daily needs.

NUROL TOWER

PRIVILEGES

In Nuro Tower we are introducing a new approach to business life in Istanbul by serving home comfort to work places at the city center.

✓ Outdoor recreational areas

✓ Panoramic view of Historical Peninsula and Bosphorus

✓ Eco-friendly building compatible with Leed Gold criterion

✓ Service units such as Pharmacy, Hair dresser, Restaurant and Cafe in town

✓ 4 different garden terraces 600 m² in total

✓ 4 m ceiling height

24-hour private security service

Bicycle Parking Lots and Douche Areas

Central Air Conditioning

5-floored Parking Area with capacity of 680 vehicles

5 electric charge units

Concierge Services

Sound-deadening windows repelling the noise of the city

'Raised floor' enabling you to design indoors according to your taste

73-3000 m² combinable and partible units

Inward-Opening Windows

7 Elevators for Passengers
11 Elevators in total

Park Area and Valet Parking



INDOOR QUALITY AND USER'S COMFORT granted by American Green Buildings Council according to LEED C&S Gold criterion, eco- and human-friendly features have been integrated into Nurol Tower project design

-  ENERGY PRODUCTIVITY
-  GREEN BUILDING CERTIFICATE
-  WATER PRODUCTIVITY
-  SUSTAINABLE LAND AND LOCATION
-  MATERIAL AND RESOURCE USE

INTERNATIONAL

ALGERIA



Regional Manager: Nurettin DEMİR



Mustafa AVUNDUK(PTO Tunnel Chief), Mehmet OĞUZ(PTO Grupman Manager), Nurettin AKDENİZ(Nurool Construction Inc. General Manager), Taner UZDİL(PTO Project Manager), Ali AL (PTO Topographical Chief), Nurettin DEMİR(Nurool Construction Inc. Algeria Regional Manager), Mehmet ÖZTÜRK(PTO Concrete Structures Chief)

Construction work of the highway for the Tizi-Ouzou city connection to the main East-West Highway with the length of 48 km has been given to the partnership of Özgün-Nurool-Engoa (Groupement O.N.E.) with the 538 million Euros valued contract signed on 12.02.2014. With the addendum approved in December 2016, total BOQ has reached over 600 million Euros.

In three main campsites (Boukhalfa, Draa El Mizane and Djebahia) and in the tunnel site, four concrete plants are in use and the mobile crusher and an asphalt plant are ready to be used. For the project, a total of 1200 personnel have been hired including Turkish and Algerian locals and with the machinery more than 550 the works are being carried out. Besides our own resources, some Turkish and local subcontractors are being used as well in our project which has a huge importance for both our companies and the local people.

Within the project, over 11 millions m³ of excavation and 1 million m³ of fill have already been completed. The project contains of 21 viaducts with a total length of 2x10.500 meters including the longest one of 1773 m. Among

the structures, one balanced cantilever viaduct is almost completed and works for four more are being carried out. For the two tunnels with total length of 2x1.57 km, construction works at six tunnel faces are going on at the same time. Temporary supports and excavation works have reached 610 meters.

For the general, over 30% of the total work has been completed so far.

TOTAL QUANTITIES OF THE PROJECT

- 24,9 Millions m³ of Excavation
- 7,5 Millions m³ of Fill
- 1,3 Millions m³ of Concrete
- 130.000 Tons of Reinforcement Steel
- 800.000 Tons of Ciment
- 3,5 Millions Tons of Agregates
- 122.000 Meters of Piles
- 2.200 Pieces of Precast Concrete Beams
- 10.000 Tons of Pre and Post-Tension Cables
- 45.000 Tons of Bitumius
- 970.000 Tons of Hot Mix Asphaltt
- 1,5 Millions Tons of Plant Mix



PTO TIZI-OUZOU HIGHWAY

Project Manager: **Taner UZDİL**



Burak ERSÖZ (Özgün CEO), Mr. KHLIFAOUI (General Manager - Ana), Abdelghani ZALENE (Minister Tpt - Public Works&Transportation), Governor of Tizi Ouzou, Secretary General of The Governor of Tizi Ouzou, Nurettin AKDENİZ, Nurettin DEMİR, Director Groupement One Mehmet S. OĞUZ, Mr. CHTAIBI (Director of Infrastructure), Taner UZDİL(Project Manager Groupement One), M. BIREM (General Manager of Engoa)



Mehmet S. OĞUZ(Director Groupement One), Nurettin DEMİR, Mehmet ÖZTÜRK (Manager of Structures Department), Nurettin AKDENİZ, Caner ÖZDEMİR (Qa/Qc Manager),

INTERNATIONAL

ALGERIA



BOUKHROUFA DAM

Project Manager: **Cumhur Tufan BOZ**



East Regional Manager of ANBT, Governor of El Tarf, Nurettin DEMİR (Algeria Regional Manager)

The Boukhroufa Dam is located at the eastern part of Algeria, 20 km. south of the city of El Tarf near the border of Tunisia. The dam with the storage capacity of 90 million m³ will meet the requirements of the region for irrigation of the agricultural lands

The dam body shall have a crest length of 880 m and a height of 90 m above the foundation. The dam embankment consists of a total earth-moving volume of 7.000.000 m. The project includes a diversion gallery of 280 m length, 900 m injection galleries, 80.000 m³ concrete and 30.000 m drilling for the grout curtain.

As being a very important milestone for construction of the dam, the river diversion has been realized on 31.01.2017, as stipulated by the Employer, at a ceremony with participation of the Governor of El Tarf and the high rank authorities of the city and the Employer. The fill placement for the main dam and injection gallery works are carried on.



Capital City	: Algeria
Official Language	: Arabic
Governance	: Republic
Surface Area	: 2.381.741 km ²
Population	: 34.895.000
Currency	: Algerian Dinar





DOUERA DAM

The Douera Dam, located near Douera district 27 km southern west of Algiers, the capital city, is the first project having been realized in Algeria by NUROL. The Douera Dam shall provide potable water for the Alger city as well as irrigation water to the farm lands (17.200 Ha) in the Mitidja plain. The Dam was totally completed including the works of the 2 years warranty period that the final acceptance was performed on 5 October 2016.

The inauguration of the Dam was performed on 4 July 2015 by his excellency Abdulmalek SELLAL, Prime Minister of Algeria, and the reservoir impounding had been initiated since then.



The Souk Tleta Dam, the second project of NUROL in Algeria, has a 100 million m³ water-retention capacity, which will be used for potable water supply to Boumerdes and Algiers cities of the Country. The Dam is a zoned earth fill embankment with a total volume of 3.000.000 m³ earth-moving including the side embankment. The project consists of two 8 m diameter diversion tunnels of each 375 m length, a scheme of injection galleries totally 525 m length, 105.000 m³ concrete and 50.000 m drilling for the grout curtain.

After the project remained suspended for 4 years owing to the expropriation problems in the lake area, the works have been resumed eventually since July 2016. Until to date, driving of both diversion tunnels were performed by rock blasting and the tunnel concrete lining has been completed recently where as excavation of the diversion tunnels inlet structure has been completed meantime. The fill placement for the side embankment is on the completion stage. The works are carried out at an accelerated pace for achievement of the river diversion in 2017.

The works for the cofferdam and spillway has been commenced after realization of the deviation of the RN25 state road at date 23 May 2017.

SOUK TLETA DAM

Project Manager: Kamil İlhami GUMUSDAG

INTERNATIONAL

MOROCCO



Capital City : Rabat
Official Language : Arabic - Moor
Governance : Constitutional Monarchy
Surface Area : 447.000 km²
Population : 32.725.847
Currency : Moroccan Dirhem

El Jadida Safi Motorway Construction

Asst. General Manager: Osman NARIN



El Jadida-Safi Motorway is a two-lane and 142,1 km length toll road which takes place on Atlantic Ocean Coast and contracted out by Morocco Motorways Company (Autoroutes de Maroc-ADM) for the purpose of contributing tourism, industry and social development of the region.

Under two separate contracts which are signed by ADM and our company on 2012, 3rd parcel "Sidi Smail - Oualidia" and 4th parcel "Oualidia - Safi" sections that totals 82,1 km were constructed.

In total; 7,1 million m³ excavation, 8,6 million m³ filling, 1,8 million m³ base/sub-grade, 860 thousand tons hot mix asphalt and 230 thousand m³ concrete, 10 thousand tons ironwork including 2 viaducts, 30 vehicle overpasses, 2 pedestrian overpasses, 16 vehicle underpasses, 16 pedestrian underpasses, 57 km drainage pipeline, 111 km drainage channel were carried out in the scope of work for the projects.

Final acceptance process of the highway started in March 10th, 2017. It is expected to be completed until the end of March.

INTERNATIONAL UAE



Nurol LLC General Manager: Ali Mirza ÖZBEK



Capital	: Abu Dhabi
Official Language	: Arabic
Management	: Constitutional Monarchy
Surface	: 83.600 km
Population	: 8.264.070
Currency	: Arab Emirates Dirham



NUROL LLC PROJECTS

In spite of negative effects of low oil prices in United Arab Emirates, developments in construction sector exploiting through multi-billion dollars infrastructure and landmark retail and real estate projects in Dubai with positive expectations of Expo 2020. On the other side, there is only few projects in pipeline in Abu Dhabi just able to support sustainable development of the city.

Dubai once again attracting businesses over the world. Likewise, Nurol precautions on selecting projects in line with lesson learned in the past, and following projects having solid commercial and technical grounds from reliable and reputable Clients.

Nurol LLC is sustains its developments in United Arab Emirates with recently awarded multi-million dollars high-rise residential project at the prime location of Abu Dhabi Corniche, and following several other projects as in line with its mission 'successful completion of projects' and vision 'sustainable growth' in the UAE.

INTERNATIONAL

UAE

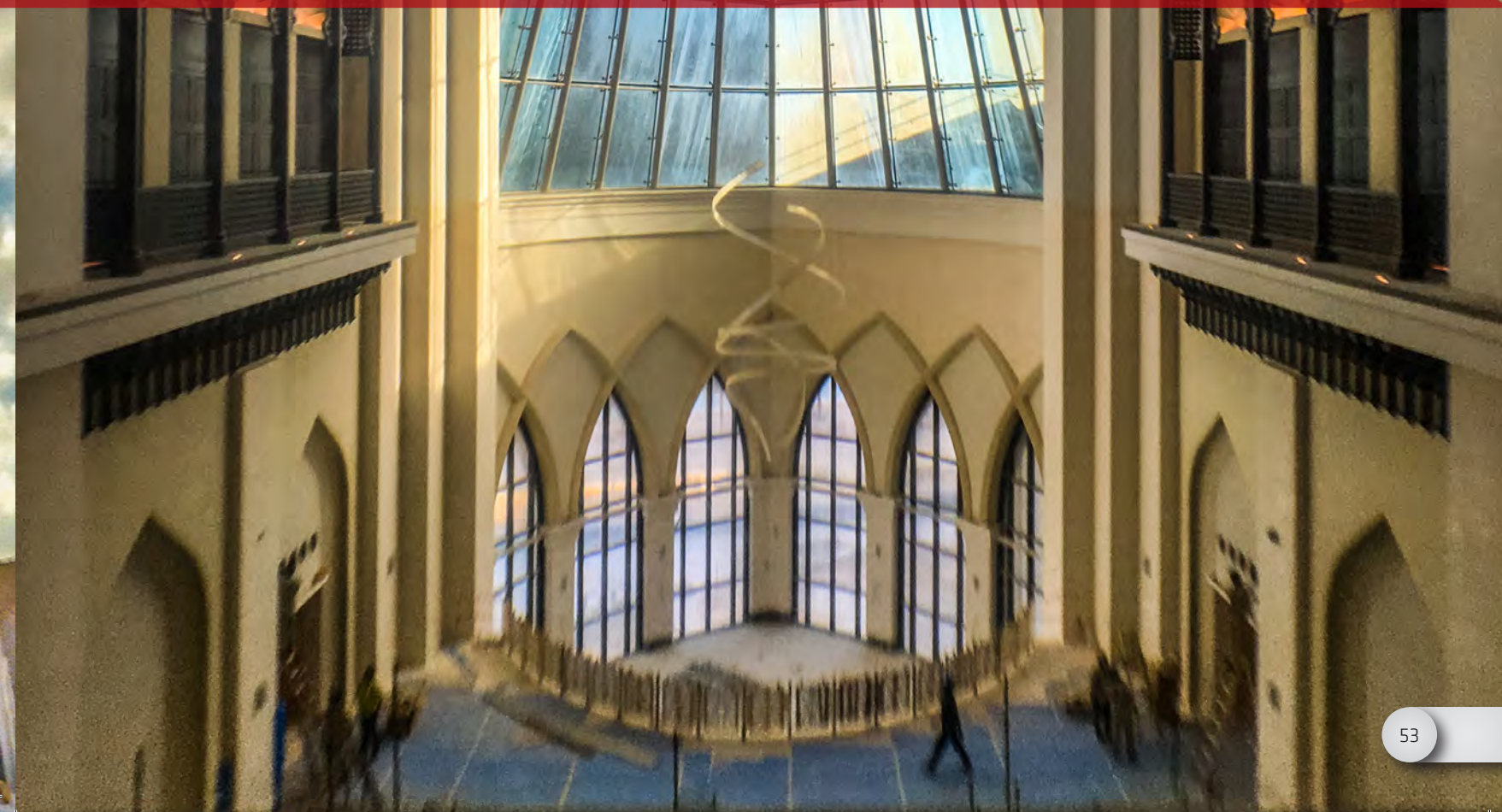


BAB AL QASR

Project Manager: Ömer KURT



Bab Al Qasr Hotel & Serviced Apartments Project is located at the most prestigious location of Abu Dhabi, just opposite of the Emirates Palace Hotel and Jumeriah Etihad Towers which is successfully completed 412 hotel rooms and 265 apartments by 1st July 2016 and currently operational by Millennium Group as one of the landmark buildings of Abu Dhabi with its unique Moroccan Style design.



INTERNATIONAL

UAE



Project Manager: Omar Ali Al KHODARY





CORNICHE TOWER

Nurol LLC's most recently awarded "Corniche Tower" project is a high-end residential building located at Abu Dhabi, United Arab Emirates which is consisting 4 Basements, Ground Floor, Mezzanine Floor, 5 office floors, 27 Residential floors and 2 Penthouse Floors with a total built up area of 66.945 square meters and planning to complete in two years.

INTERNATIONAL

UAE

Marina City

Project Manager: Samir WARDANI





Our Marina City Project is located at the most prestigious and prime location of Abu Dhabi adjacent to Abu Dhabi Marina Mall, consisting construction and completion of 67 high-end villas, 4 residential towers over 2 floors podium level car park with a total built up area of 123,000m², which is planning to be completed by June 2017. The project will have 2PerI rating from Urban Planning Council of Abu Dhabi which is similar to Leed Gold sustainable building construction certification.



Thomas MATHEW Cost Control Director of Emaar Properties, **Samir WARDANI,**
Omar YOUSEF Business Development Manager of Sheikh Sultan Bin Khalifa Holding
Mehmet KARA, Noel William MADIGAN, Executive Director - Development of Emaar Properties
John CARFI Chief Executive Officer - Development of Emaar Properties



INTERNATIONAL

UAE



Rawdhat Residential Buildings Project

Project Manager: Omer Ali Al KHODARY

Two Residential Buildings for H.H. Dr. Sheikh Sultan Bin Khalifa Bin Zayed Al Nahyan at adjacent Plots of C104 and C105 of Sector E-48, Rawdhat, Abu Dhabi, United Arab Emirates, is successfully completed and operational since 27th October 2017 ve 30th November 2016, respectively. The project has granted 1PerI rating from Urban Planning Council of Abu Dhabi which is similar to Leed Gold sustainable building construction certification.



INTERNATIONAL

UAE

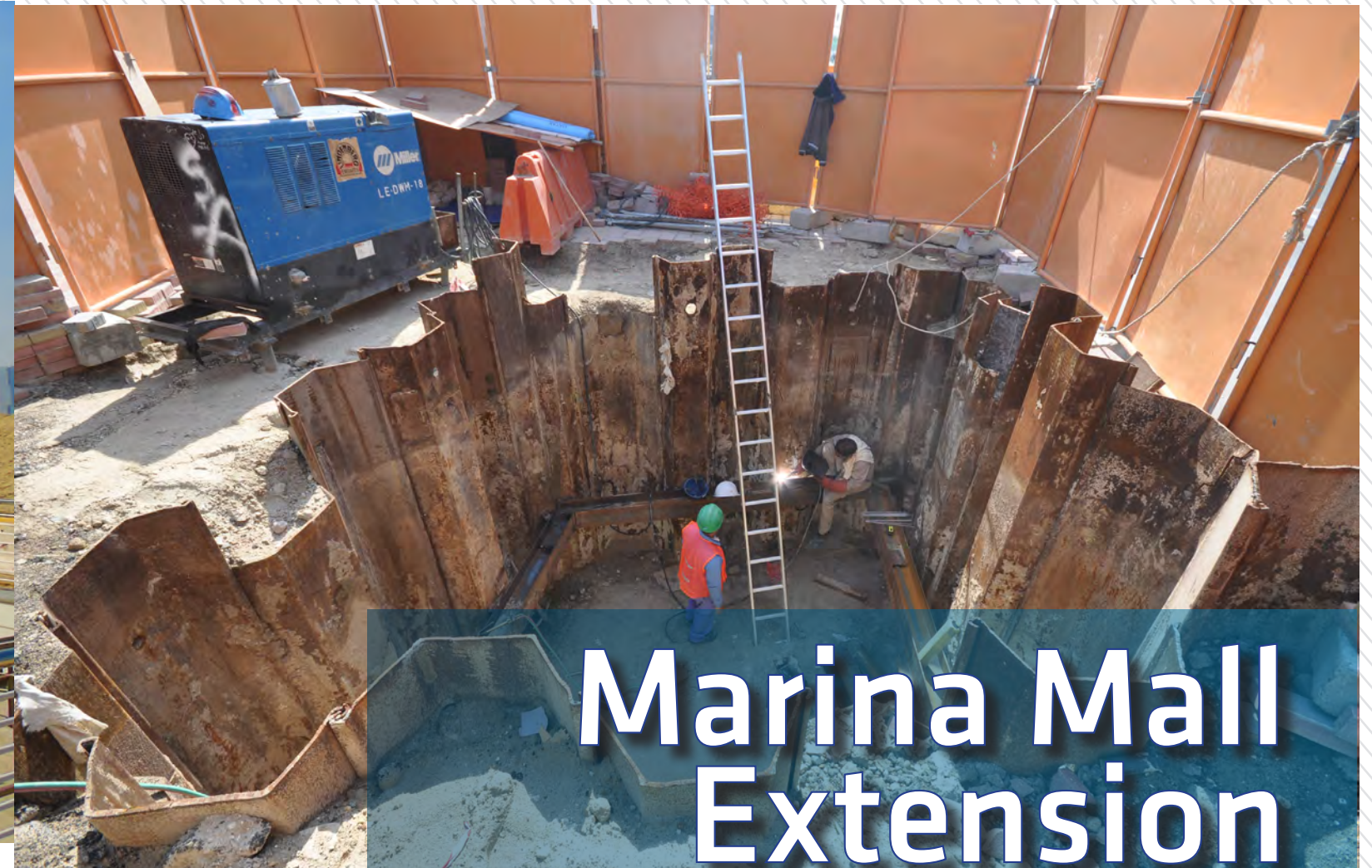


Shams Canals

Project Manager: Akram Hijazi

In connection with the canal system was realized by Nurol LLC at Al Reem Island earlier, recently awarded closed canal works is forming a part of Reem Development's infrastructure by M/s. Aldar that to be completed, flooded and operational including construction of a closed canal segments to north and south and west and north and reinstatement of the seawater pumping station including MEP installations and commissioning of the canal system.





Marina Mall Extension Project

(Utilities Diversion Package)

Project Manager: Samir WARDANI

Marina Mall Extension (Phase 2) - Diversion of Services and Access Mitigation works is comprises diversion of existing underground services and construction of new fuel tanks and CCTV rooms, which is due to be completed within first quarter of 2018.



INTERNATIONAL

UAE



Dubai Projects

Nurool has initiated the construction activities in Dubai since 2004 and successfully completed over 600.000m² of high building projects consisting villas, townhouses and mass housing projects at International City and Jumeriah Village with an over 400ha of infrastructure projects consisting underground utilities services, roads, HV/LV substations and street lighting network at Jumeriah Park.



INTERNATIONAL

UAE



Fairmont Hotel Staff Residential Project

Currently, Nurool has only one project in Dubai which is consisting of staff accommodation buildings for Fairmont Hotel; nonetheless, we are after some special type of landmark projects of reputed Clients with sufficient funding of their respected projects where Nurool might be competitive.

Project Manager: Barış SAYSEL





NATIONAL

TÜMAD

MADENCİLİK SANAYİ VE TİCARET A.Ş.

Lapseki Project

Aim: to reach common values with all the shareholders in gold mining

Located in the north-west region of Turkey in Biga Peninsula, Lapseki Project is a gold mine project in an advanced stage. After the field was bought in November 2014, TUMAD Mining completed 11.500m drilling at 143 different points between 2014-2015, conducted a Mineral Source research, completed a Feasibility study and started to invest in the field.

As mine resource, the project has 19,6 million ton 1.47 g/t gold-grade 930.000-ounce source in total.

In feasibility studies 7,1 million ton 1,85 g/t gold-grade 403.000 ounce producible gold reservoir in total was calculated. In Lapseki Gold Mine, expected to be completed in 10 years under the administration of Open Pit Mining, 0,75 million ton ore will be produced annually. A conventional process facility (3-staged crushing, screening, leach and CIP) with 95% recovery will be built to recycle gold and the dore gold to be produced will be transferred to refinery for beneficiation and purification.

Construction and detail engineering operations still proceed in the field in the context of investment works and the first production of gold is planned to take place at the beginning of the 4th quarter of 2017.





Gürhan ÇARMIKLI, Nurettin ÇARMIKLI, M. Oğuz ÇARMIKLI



Hakan ASLAN, Çağrı ÖKTEN, Ömür ÖZTÜRK, Cumhuri BOZKURT, Hasan YÜCEL, Nurettin ÇARMIKLI, M. Oğuz ÇARMIKLI, Gürhan ÇARMIKLI, Şakir KALELİ, Mehmet BUYURGAN, Cengiz GÜMÜŞDAĞ

INTERVIEW



Nurol Investment Bank Chairman of the Board Ziya AKKURT

We would like to introduce you to our readers in a closer manner. Would you provide us with some information about your family, place of birth and education please?

I was born in Diyarbakır where I completed my primary and secondary education, followed by a transfer to Ankara Anatolian High School with my own discretion. Later, I continued my educational life at METU Faculty of Administrative Sciences Public Administration department. I completed in 3 ½ years thanks to the Academic calendar and I came to Istanbul for my banking career.

How did your banking career start?

I decided to become a banker in the 3rd year of university with the advice of a U.S. diplomat. I applied for a job advertisement of Interbank and as one of 7 candidates among a group of 500 people, I started the Executive Candidate program. I worked in Interbank, BNP-AK-Dresdner Bank, Osmanlı/Banque Paribas and Akbank respectively for 29 years.

When did you meet Nurol first and why NurolBank?

I met Nurol Group due to business. As Akbank, we had taken part in the financing of important projects. It was around 1999-2000, if I'm not mistaken. We were always in contact due to being one of the rare banks that could provide long-term loans. We came together with Nurol Yatırım Bankası while I was working as the General Manager for Ak Yatırım between 2008-2009. Then our contact has continued.

“ We are quickly strafing away from the image of being a bank within its own shell. ”

Can you tell us about the development process of NurolBank, in which you currently act as CEO, since February 2016?

I started to work in NurolBank in February 2016. I took office as the Chairman of the Credit Committee and Board of Directors. We continue the development process which started before me with our General Manager Özgür Bey in 2013.

As a very rapid development since 2013 triggered the institutionalization process in administrative sense, I got involved with these developments in February 2016.

Due to a rapid growth with the change in the corporate mentality, increase in the recognizability in the market as well as profitability, it has become an important corporation of Nurol Group

Has there been any changes in the organizational structure of the bank after you took office? What would you say about your structuring?

After I took office, many developments in terms of organizational and administrative aspects have emerged as a result and requirement of the rapid developments that have previously started. I think some of our applications become examples within Nurol Group.

As the Board of Directors, not only we worked in a close proximity to the performance and accelerated the decision and application processes, we also made it more efficient. Consequently, we monitored the decisions made and applications more closely. We caused the emergence of the perception that we are a small but serious bank.

Can you provide us information regarding the current size of NurolBank?

Despite being small compared to the general sector in terms of total amount of assets, it has become one of the leading corporations in the investment bank league.

NurolBank has activities in both areas. Can you briefly explain the differences between corporate banking and investment banking?

The only difference is the inability to collect plain deposits as we know them. Other than that, we

“Despite being small compared to the general sector in terms of total amount of assets, it has become one of the leading corporations in the investment bank league.”

conduct any transactions in corporate banking area.

There is a crisis across the world; how does Turkey look? What can be done in the sector in order not to be affected from negative developments or to mitigate their effects?

There is an ongoing crisis across the world since 2008 and it was not possible to throw it off. In my opinion, the world is headed towards a new order, hence the pain. Therefore, we are in a period that will take long.

These developments indirectly affect Turkey in an either negative or positive way from time to time. Adding the internal dynamics of Turkey itself to that yields an active scene that is unpredictable or difficult to predict. It is required to take precautions that will result with the sector capital to get stronger in order not be affected immensely in this fluctuating period.

Accordingly, it is also required to review the loan periods of the banks to increase the asset quality. These may be the precautions of the sector; however, as finance sector coexists in the same ecological environment as the real sector, it is necessary to take constructive precautions for the real sector players that increase their profitability and growth.

One cannot think of the banking sector apart from the real sector.

What are the expectations of Turkish banking sector in 2017? What can happen in short term in connection with the Turkish economy?

I think the banking sector will reach a 20% growth with loan growth and KGF loans in 2017; this is of course within the current conditions. Any developments may arise that may affect this estimate in a negative or positive way. The

“Considering the fact that banking relies on trust, it is important for the auto control systems to create an environment of trust.”



profitability of the banks continues in a highly increasing way. However, the rate of increase started to decline. It is not possible to know what we will end up facing when the reimbursement periods of the deferred loans begin. It is possible to point out that some of them will not be able to be reimbursed and I hope this will not cause a bottleneck in the sector. In this sense, it is possible to state that no problems will occur until the middle of 2018 as a short-term estimate.

Do you think the regulations of BRSA in investment banking are positive? Do you have different expectations in this regard?

Investment banking is in its infancy in Turkey, further development of which requires supporting regulations. There is always a need for financial institutions that can conduct the transactions that do not follow the business model of deposit banks in a set of rules.

In this sense, investment banking is needed in the developing economy of Turkey and the ones available need to be supported.

Can you share your expectations regarding interests in the following periods? (Deposit interests, loan interests...)

Summer is coming; as it is a period in which the economy slows down and due to the indications of deceleration in the world economy, I expect a 2-point decline in the interests. It may later increase again. If long-term foreign funds enter the Turkish market, this may become permanent.

What are your estimates regarding the end-of-the-year inflation, growth, current deficit and foreign currency? What risks can the political changes bring?

It is difficult to estimate the economic estimations due to the reasons I have stated above, as they can change any time. However, in current conditions, the inflation will be at 10%; the growth may be between 3% - 3,5 and if we only take USD as the foreign currency, I expect it to be around 4-4,05. The current deficit continues its increase despite the increase trend in the export. It may reach 4,2% of the GNP. It may be roughly 33,6 billion USD. I would like to stress that these estimates are within today's conditions. These numbers may also change based on the changing conjuncture.

What are your precautions and measures in this regard?

We apply a lower-risk but careful loan policy despite everything. We held a strategy meeting by the end of last year as the senior management and board of directors of the bank and created the 2017 budget. We created our plans in a way that is open for positive surprise developments but in a quite conservative structure. Of course, unclear environments may always pose an advantageous environment for good bankers as long as we are careful and conduct a good risk management.

What are the middle- and long-term plans of NurolBank?

Being the best in Turkey and then in the region, which had been determined before I joined and which I also support. I think this brief statement explains everything.

Can you provide us with the information regarding the changes in the financial structure of the bank in the last 10 years?

Although it is not possible to compare the developments over the last three and a half years with the past, it is not easy to reach around 22% from a period when ROE was

almost negative. However, although the increase in our capital and quick increase in our equity with high profitability prevents us from reaching high ROE numbers, we will continue to fight regardless.

Are there any areas of differences you specifically make as NurolBank with products and services you provide in the highly-competitive banking sector and if yes, what are they?

We make a difference by managing the risk very well and making quick decisions, entering investment banking transactions that many banks would not want to conduct.

Do you have any plans for abroad? Can you explain briefly?

We are only trying to improve our relationships with abroad at the moment. We are quickly strafing away from the image of being a bank within its own shell. Today, while there is a hesitation to bring long-term funds to Turkey, it is an important success for NurolBank to receive a loan from OPIC, which will in turn enhance or recognizability and reliability abroad.

How is the growth of the bank compared to the sector average?

NurolBank has grown above the sector average since

2013. Our aim is to make it consistent.

Do you think the recognizability of NurolBank in the sector is sufficient? What is your objective?

Both our works and efficiency in the visual press have recently increased our recognizability in the sector. We have aimed to move that forward.

NurolBank provides services to our Nurol Group companies as well. What are the points to observe in the distribution inside and outside the group?

We provide services to the Group within a specific framework and under financial rules and banking practices. At this point, the rules and practices of our guide BRSA and the requirements of international creditors specify the fundamental service level.

Of course, the internal practices that we have established to audit ourselves play an important role in specifying the service content level. In short, we have a structure that can audit itself. Considering the fact that banking relies on trust, it is important for the auto control systems to create an environment of trust.

What are the strengths and improvement points of the bank? What is being done and/or planned in this regard?

Our primary objective is a healthy growth. We do not want to be adventurous while growing. We try to implement our policies by conducting a good risk analysis within the current conditions.

What do you want to say to our readers in terms of investment and economy?

Finally, I would like to state that the relevant committees and organs work in harmony in the bank and we make the decisions with a shared wisdom. We make criticisms without breaking hearts and make the best decision, which empowers us and grants us the ability to see the cases from each perspective. It is not possible to make robust decisions in environments without free thinking.

I would like to thank everyone with the patience to read this interview to the end.

Best regards.

We would like to thank our Chairman of the Board for providing valuable information.



■ Interview: Meral SARI CEYLAN



Under the auspices of the
PRESIDENCY OF THE
REPUBLIC OF TURKEY

IDEF'17

9 -12 May 2017

**Nurol Defense
Group
Marks
IDEF'17!**





Nurol Machinery leads the way in IDEF 2017 Fair

Nurol Makina marked IDEF Fair held in TUYAP in May 2017 with her indigenously designed vehicles like Turkey's most popular 4X4 Heavy Armored Tactical Vehicle i.e. Ejder Yalçın as well as a brand new Light Armored Tactical Vehicle development named NMS 4X4 and the new member of the Ejder family of vehicles Ejder Kunter, Armored Personnel Carrier with advanced situational awareness systems. Of course legacy products of Nurol Makina like the new version of Ilgaz Light Armored Personnel Carrier family called Ilgaz II and Ejder TOMA were exhibited at IDEF as well.

Deputy General Manager of Nurol Makina Dr. Anıl Karel highlighted that NMS 4X4 has been designed by highly qualified R&D team taking constant feedbacks from production, assembly, test and customer support teams into account. The vehicle features are so distinct compared to other available vehicles in the market that NMS 4X4 will create his own segment. The vehicles offer modular structure, various ballistic protection levels and higher speed levels both for urban and rural area operations.

Nurol Machinery showed that they are utilizing high tech applications not only for his vehicles but also marketing purposes. The virtual reality (VR) application of Ejder Yalçın giving detailed information about production cycle and performance of the vehicle in a 360° environment significantly impressed the visitors.



Prof. Dr. İsmail DEMİR
(Undersecretary of National Defence)



Engin AYKOL, Binali YILDIRIM, Nurettin ÇARMIKLI



Dr. Hasan AKGÜN(The Mayor of Büyükçekmece),
M. Oğuz ÇARMIKLI, Nurettin ÇARMIKLI, Fikret ORMAN



Dr. Hasan AKGÜN(The Mayor of Büyükçekmece),
M. Oğuz ÇARMIKLI, Süleyman SOYLU(Minister of Interior)



FNSS, Exhibits the Future of Land Platforms at IDEF

Continuing to expand its product family with innovative products, FNSS is launching new vehicles and displaying the latest situation with its new platforms at IDEF 2017. Visitors of FNSS' stand also found the opportunity to directly see and touched the future of land platforms.

Displaying its broad range of solutions and capabilities, which includes logistic support and modernisation for land platforms, FNSS was standing its feature at the following vehicles and weapons systems, which were all in the highest segment of their respective classes: KAPLAN MT Modern Medium Weight Tank, KAPLAN-30 New Generation Armoured Fighting Vehicle, KAPLAN-20 New Generation Armoured Fighting Vehicle, PARS III 8X8 Tactical Wheeled

Armoured Vehicle, PARS III 6X6 Tactical Wheeled Armoured Vehicle, PARS SCOUT 6X6 Special Purpose Tactical Wheeled Armoured Vehicle, PARS 4X4 Anti-Tank Vehicle, TEBER-30 Two-Man Turret, TEBER-30 Remote Controlled Turret.

At the exhibition, FNSS was launching the KAPLAN-30, the PARS III 8X8 and PARS III 6X6 Tactical Wheeled Armoured Vehicles, the PARS SCOUT 6X6 Special Purpose Tactical Wheeled Armoured Vehicle, the ACV Modernisation, and the TEBER-30 Two-Man Turret. Following the initial launch of its design concept in Indonesia, the KAPLAN MT Medium Weight Tank prototype will be showcased for the first time in this event.

K. Nail Kurt, General Manager and CEO of FNSS, summarised the progress FNSS has been made thus far as follows: "In line with the strategic plan we laid out five years ago, we acted proactively by investing in the technologies and capabilities required by both the Turkish Armed Forces and armies around the world. The result was our family of tracked armoured combat vehicles from 15 to 30 tons, capable of responding to different requirements; our family of wheeled armoured vehicles from 4x4 to 8X8; and our family of armoured engineering vehicles that comprises the SAMUR and KUNDUZ. In addition to these already existing families, we are now preparing to introduce the KAPLAN MT Modern Medium Weight Tank and the ZAHA Amphibious Armoured Assault Vehicle. Furthermore, we also meet our customers' weapon-related needs through our manned and unmanned turrets equipped with 25, 30 and 40 mm weapons. Today, with its wide-ranging product family, and the effectiveness and technology that characterises its products, FNSS stands as one of the world's leading land platform manufacturers."



Binali YILDIRIM, K. Nail KURT, M. Oğuz ÇARMIKLI



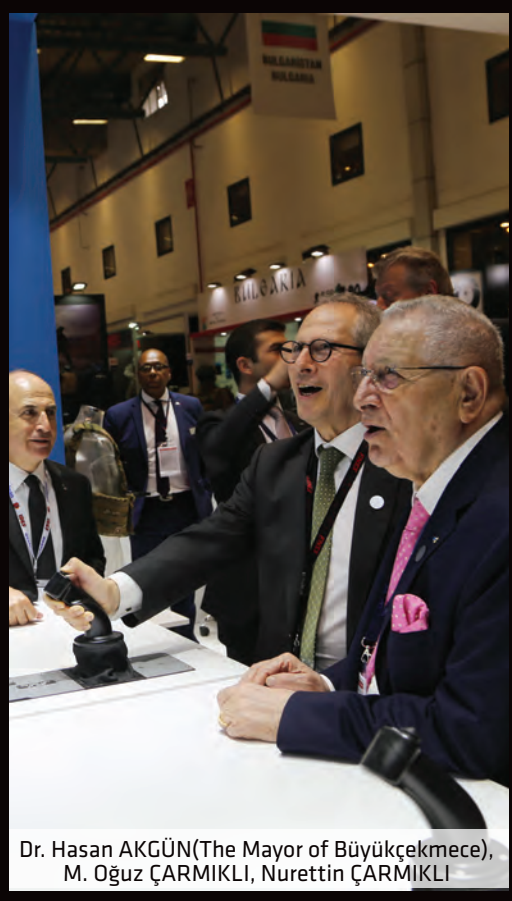
Yaşar GÜLER (The General Commander of the Gendarmerie),
K. Nail KURT, Nurettin ÇARMIKLI



K. Nail KURT, Yaşar GÜLER



İbrahim Aybars KÜÇÜK, Prof. Dr. İsmail DEMİR

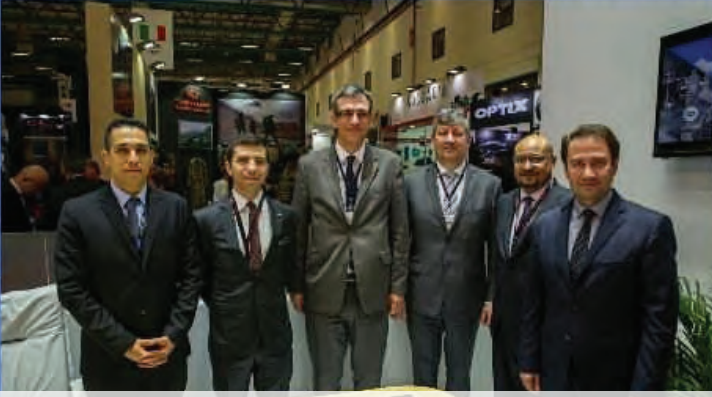


Dr. Hasan AKGÜN(The Mayor of Büyükçekmece),
M. Oğuz ÇARMIKLI, Nurettin ÇARMIKLI

BNA Nurol BAE Systems Air Systems Inc. at IDEF For the First Time!

BNA found the opportunity to express her engineering capabilities for design and development as well as program and supplier management capabilities at the IDEF 2017.

A contract called "Multipurpose Gas Turbine Motor Control System Development Project" was signed between BNA and AES, which is a JV of major engine OEMs MTU and Safran. The contract award by AES to BNA is a solid indication of engineering power and bright future of BNA.



Emre GÜRDAMAR, Oğuzhan ÇARMIKLI, Dr. Andreas KREINER, Bernard JURCZYNSKI, Gürol ÇARMIKLI, Eray GÖKALP



Eray GÖKALP, Bernard JURCZYNSKI



Eray GÖKALP, Bernard JURCZYNSKI

BNA

A joint venture between



aes

Aerospace Embedded Solutions

A joint venture between



Signature ceremony was held with the participation of Nurolog Holding Board Members, BNA Board Members, Turkish Air Force National Combatant Aircraft Branch Manager, Undersecretarian of Undersecretariat for Defense Industries, Aircraft Group Director and Managers, and also the executives of FNSS, Nurolog Machinery, TAI, TEI, STM, SELEX and the members of the press.

Nurol Technologies at IDEF '17

Nurol Technologies Industry and Mining Trade Co. Inc. was founded in Ankara in 2008 in order to provide the most suitable solutions for the needs of defense industry with “Nato Classified” and “Nation Classified” Production Permit and Facility Security Clearance.

Instead of classical armor systems, it produces lighter, more resistible and more reliable armor systems with 100% local means and abilities thanks to ballistic composite hybrid solutions along with advanced technical ceramics such as rare Boron Carbide, Silicium Carbide, Alumina with nanosized powder metallurgy.

Designed and developed armor systems can be successfully applied to every field such as Land, Naval and Air Platforms, Rolling Stocks, Heavy Construction Vehicles, Personnel Protection and Structural Protection. Armor solutions used on these platforms are presented to our customers as the most appropriate combination of threat, weight and cost elements.

Nurol Technologies exports ballistic armor to more than twenty countries abroad and successfully and proudly satisfies the need of ballistic armor vehicles especially of our Security Forces and Armed Services.





M.Öğuz ÇARMIKLI, Erhan BİLGİN, Cem SAPMAZ



NATIONAL

First Exportation of



EJDER YALÇIN



Our Ejder Yalçın vehicles, which we have proudly delivered to General Directorate of Security and Turkish Armed Forces for their operations in critical regions has a high demand from abroad. Within this framework, we have received our first foreign order from a North African country. In the scope of the negotiations going on for more than a year, our Ejder Yalçın has successfully passed a number of tough tests in Sahara Dessert. One local and few foreign companies aforementioned being unsuccessful, indicates how superior performance Ejder Yalçın has compared to its rivals.

NATIONAL



The background image shows a dark-colored Ejder TOMA vehicle in the foreground on the left, with its headlights and grille visible. Behind it is a security perimeter consisting of a concrete wall, a black metal fence, and a single strand of coiled barbed wire. In the background, there is a large, light-colored industrial or military building with a complex structure of pipes and walkways. The sky is a mix of blue and white, suggesting a clear or slightly overcast day.

Another Ejder TOMA is exported to Middle East

By virtue of contract signed in 2016 with a Middle East Country for Ejder Toma Vehicles, has been delivered in March 2017. Ejder TOMAs are military type vehicles and have a unique chassis, an independent suspension system and high ballistic protection, which separates them from other TOMAs at the defense market.

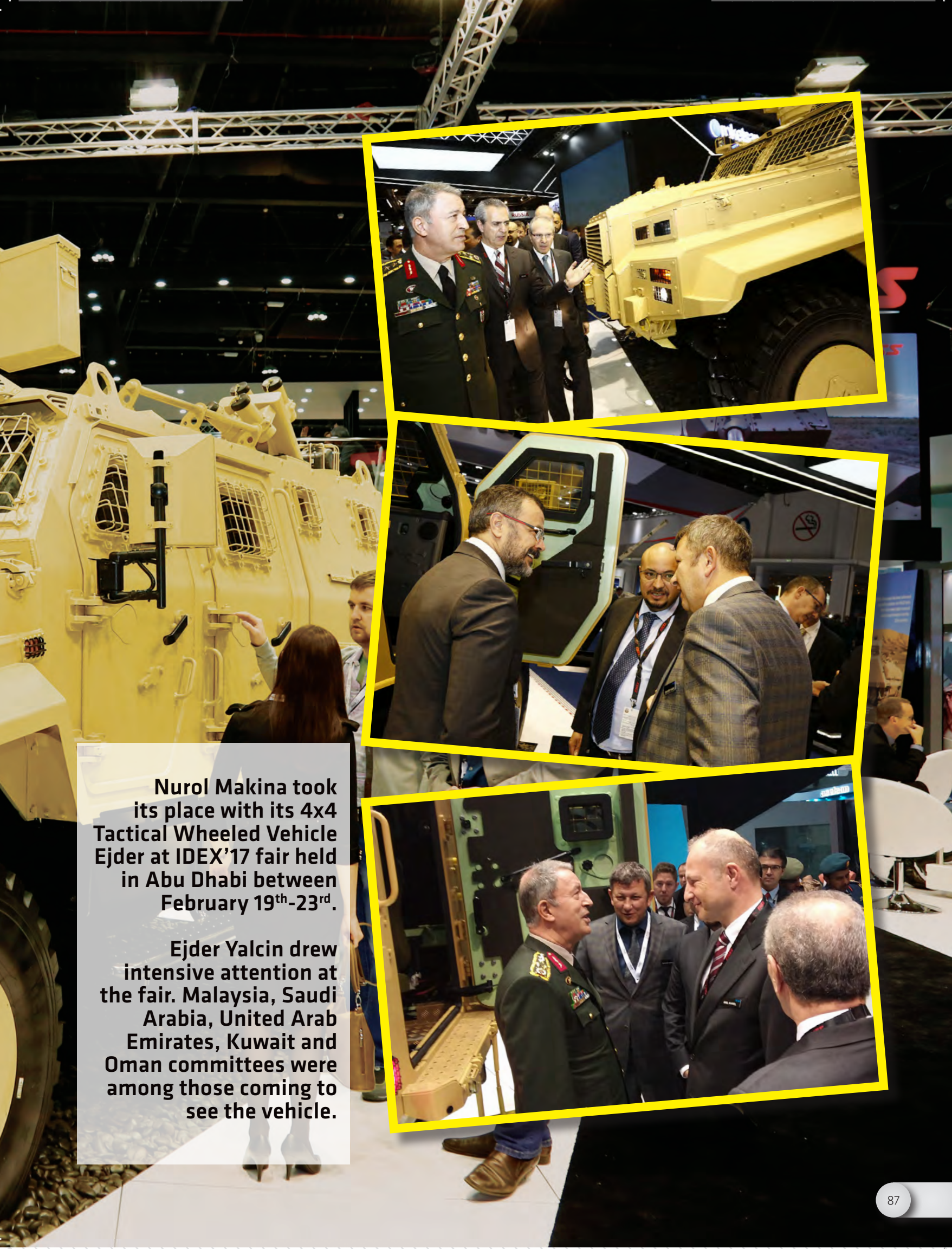
Procurement authority preferred Ejder TOMA among many other vehicles after numerous comprehensive and tough tests.

A ceremony for the vehicles coming into service has been conducted with the participation of top government officials.

NATIONAL

Nurol Makina at IDEX'17 with EJDER YALÇIN





Nurol Makina took its place with its 4x4 Tactical Wheeled Vehicle Ejder at IDEX'17 fair held in Abu Dhabi between February 19th-23rd.

Ejder Yalcin drew intensive attention at the fair. Malaysia, Saudi Arabia, United Arab Emirates, Kuwait and Oman committees were among those coming to see the vehicle.

VISITS TO OUR FACTORY



In November 18th, 2016 and February 15th, 2017 two different Bangladesh committees visited Nurol Makina. In the first visit, predominantly our Ilgaz vehicle was introduced to the committee under the presidency of General Staff Infantry Director Brigadier Azaz Ahmad CHAUDHURY. The second visit lasted for three days with the participation of Chief of General Staff Major General Md. Of Bangladesh, Saiful ALAM and the accompanying committee. An extensive effort was spent for Ilgaz II. It was stated that our Ilgaz II vehicle could be used for tender bids in the future.



In March 3rd, 2017 Finance Minister of Kingdom of Bahrain and the accompanying committee visited our firm and facilities under the coordination of MSB and responsibility of ASO. A presentation introducing the firm and products was offered and our Ejder 4x4 Tactical Wheeled Armored Vehicle gained the admiration of the committee. They also demanded a civil version of the vehicle. After the presentation the head of the committee Finance Minister of Bahrain Sheikh Ahmed Bin Mohammed Al Khalifa was given a gift in the memory of the visit.



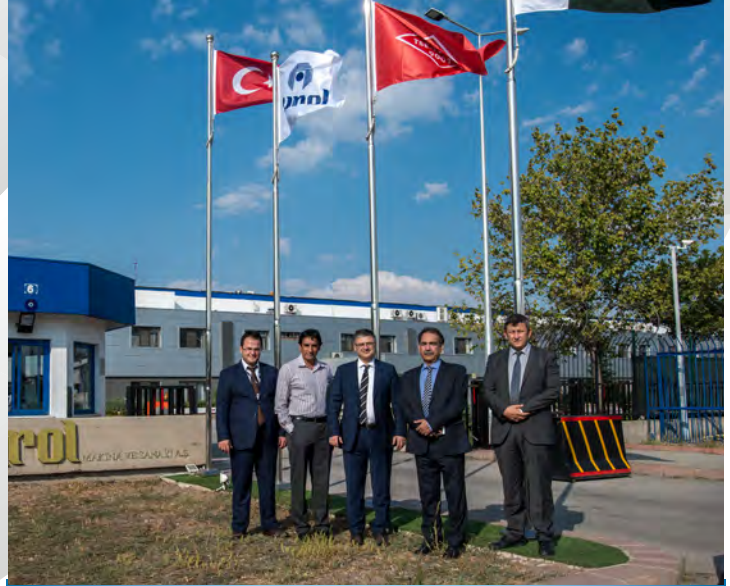
In February 02-03rd a committee from Libyan Army of Guards visited our firm. A presentation introducing Nurol Makina product abilities was held and our production infrastructure was shown to the committee. Introductions were made regarding the provision of our Ejder 4x4 Tactical Wheeled Armored vehicle and a demonstration was held in FNSS Defense facilities. After the two-day visit, a family photo was taken. The presents were offered and the visit ended.



In November 16th, 2016 high level Mauritania military committee under the coordination of National Defense Ministry visited our facilities. After the presentation of firm introduction, all of our abilities were shown to the committee and the visit came to an end.



Minister of National Defense of Uzbekistan Lieutenant General Kabul Raimoviç BERDIYEV and the accompanying military committee visited Nurol Machinery in February 28th, 2017. An extensive presentation about our firm and products was shown to the committee. Nurol Makina General Directory Engin AKYOL offered a present to Minister of Defense Esteemed BERDIYEV. The visit ended after Ejder Yalçın, İlgaz II and Ejder Toma were introduced.



The committee affiliated with Pakistani Police visited Nurol Makina. In the framework of two-day program, our firm and firm abilities were extensively introduced. Nurol Technology facilities were also introduced in the framework of the visit. The visit came to an end after the dinner with the participation of Nurol Makina executives.



Trainings were organized within the context of İlgaz II contract with Rwanda. Theoretical and practical training lasting approximately 2 weeks ended in February 24th, 2017. Certificates were given to trainees who completed the training successfully by Nurol Makina General Directory Engin AKYOL. The delivery of İlgaz II vehicles were made in March.



Defense Industry Deputy Undersecretary Esteemed Koksal LIMAN and Head of Land Vehicles Department committee visited Nurol Makina facilities. After the presentation introducing the firm and its production abilities, a modal of Ejder Yalçın vehicle was given as a gift by Nurol Holding Board Member Gürol ÇARMIKLI. As part of the firm visit, our departments of R&D, production and montage were toured. Ejder and Ejder Toma vehicles were introduced.

NATIONAL



NUROL TECHNOLOGIES

Structural Protection

As NuroI Technologies Industry and Mining Trade Co. Inc., our only goal is to design and produce lighter, more resistible and more reliable armor systems with hybrid solutions including rare advanced technical ceramics and composite materials with nanosized powder metallurgy in addition to classical armor systems. In this context we are producing advanced ballistic solutions for defense industry with “Nato Classified” and “Nation Classified” Production Permit and Facility Security Clearance.

Since the day of our foundation, we have placed a huge emphasis on research and development studies, created our own technology and increased our knowledge. Our company is able to analyze the process of raw material to end product by technologically well-equipped Quality Laboratory and Test Shooting Range. At our company, Quality Management System is used at the highest standards as possible. In this context, there are ISO 9000, 14000 and 18000 series documents.

Designed and improved armor systems can successfully be applied to every platform such as Land, Naval and Air Platforms, Personnel Protection and Structural Protection. Armor solutions to be used in this platform are presented to our distinguished customers as the most suitable compounds of threat, weight and cost elements.

As NuroI Technologies we are displaying any kind of sensitivity for product quality, high performance and product reliability since raw material inlet. Our advanced equipment and test devices in parallel with technology to be used in quality control, product applications, technical analysis and research&development activities in addition to Ballistic Test Shooting Range supply the need of the industry sector.

Hybrid armor systems uniquely designed and produced by our firm to increase local contribution are put into service of those in need and security forces both domestic and foreign.



Protector B/+ Level Vehicle Armoring



Armored Helicopter Base



Armored Bobcat



Naval Vessels Armoring

NATIONAL



Armored Loader



Armored Railway Car

Some of the Nurol Technologies Inc. Projects currently completed or ongoing are given below:

- Presidential Office protection implementation
- T.R. Prime Ministry ballistic protective dais implementation
- MILGEM 2. Armouring Ship Deckhouse Project
- The armouring project of TCDD luggage van and locomotives against the ammunition with kinetic energy and large amounts of mines for protection
- Special Forces Command ballistic protective vest project
- EGM Sikorsky helicopter cockpit base armouring project
- STM –Gendarmerie General Command ballistic vest Project
- Gendarmerie General Command BTR vehicle base armouring Project
- Gendarmerie General Command protective shield project
- Gendarmerie General Command armoured guardroom project
- EGM protective vest project
- EGM Ballistic protective shield project
- EGM shield set project
- EGM armoured guardroom project
- EGM Special Operations Department ballistic shield project
- T.R. Ministry of Interior armoured guardroom project
- T.R. Prime Ministry ballistic vest project
- T.C. Prime Ministry ballistic testudo set project
- EGM-SSM backhoe loader remote controlled armoured heavy construction equipment project
- Air Force Command ballistic vest project
- Naval Forces Command, SAT Command ballistic shield and ballistic vest project
- Ministry of Foreign Affairs vehicle armouring project
- EGM SSM armoured cottage & testudo project

- Saudi Arabia Ground Forces ballistic plates and vest project
- Libya Ministry of Security, ballistic vest project
- Republic of Azerbaijan, ballistic plate and vest project
- Sultanate of Oman ballistic protective vest project
- Republic of Kosovo ballistic protective vest project
- Republic of Colombia ballistic plate project
- Italy-Larimart ballistic protective plates project
- Ukraine, ballistic protective chest plate project
- Czech Republic Ministry of Defense, ballistic vest project
- 'Protector' military personnel carrier vehicle armouring Project of Pakistan-HIT company
- Various civil vehicle armouring projects
- Governor Offices armoured cabin project
- Provincial Security Directorates armouring projects
- National Ship MILGEM 3 command control room armouring project
- Heavy construction Equipment, Excavator armouring project
- Ballistic vest projects for banks and airports
- Kongo Ground Forces ballistic vest project
- Poland NFM ballistic ceramic plate export
- Tunisia ballistic plate and vest project
- Greece ballistic vest project

To meet the demand increasing day by day our company restlessly keep on investing for either increasing the current capacity or facilitating the new technologies.

Aiming to bring the highest technological developments to Turkey, Nurol Technologies Inc., follows, enhances and applies material content technologies developed worldwide. Our company has taken place among the leading establishments of both Turkey and the world with its experienced and innovative oriented team.



Ballistic Protective Shield Set



Ballistic Protective Hand Shield



Ballistic Protective Briefcase



Ballistic Protective Vests



Ballistic Body Plates



Ballistic Armored Plate

FNSS WINS THE TURKISH LAND FORCES ANTI TANK VEHICLES PROJECT

The project will involve the integration of anti-tank missiles within the Turkish Land Forces inventory on armored vehicles equipped with anti-tank turrets developed specifically for the project. A total of 260 ea Anti-Tank Vehicles will be procured within the scope of the project, including both tracked and wheeled vehicles.

The anti-tank guided missile system turrets will be developed with modern Fire and Command-Control capabilities. In addition to their ready-to-fire anti-tank guided missiles each turret will be equipped with a 7,62 machine gun.

FNSS plans to use the lightest member of the KAPLAN vehicle family as the platform for the tracked type vehicle of the Anti-Tank Vehicles project, while considering the PARS 4x4 as the basis for the project's wheeled type anti-tank vehicle.

Within the scope of this project; Design, development and prototype qualification processes will be completed in 2018; and in the following two-year period, serial production of 260 each Anti-Tank vehicles shall be completed and delivered to Turkish Land Forces.





FNSS





KORKUT Serial Production Begins

Following the successful completion of the design and pre-production phase of the Self-Propelled Low Altitude Air Defence Gun System (KORKUT) project conducted by the Undersecretariat for Defence Industries (SSM) together with ASELSAN as the prime contractor and FNSS as the subcontractor, to meet the need of Turkish Land Forces, serial production phase has commenced. Work on the Serial Production Phase of the KORKUT Project started after the serial production agreement was signed between SSM and ASELSAN, and subsequently a sub-contract agreement was signed between ASELSAN and FNSS for the delivery of the tracked platforms.

The KORKUT System is comprised of a Command and Control Vehicle and Weapon System Vehicle to complete air defence operations. The Command and Control Vehicle detects and tracks targets with its 3D search radar and while developing a local air picture, evaluates threats and assigns targets to the Weapon System Vehicles. Meanwhile, the Weapon System Vehicles trace the target with fire control radar and generates firepower with two 35 mm guns using fragmentation ammunition.

Both the Weapon System Vehicles and the Command and Control Vehicles were built on the ACV-30 chassis, the tracked carrying platform specially developed by FNSS to carry the command and control, large scale mobile radar, gunfire support, self-propelled artillery and missile systems. The ACV-30 is also used in the Low Altitude Air Defence Missile System (HiSAR-A) project. The most remarkable feature of the ACV-30 is its amphibious capability while maintaining high payload capacity, superior mobility performance and a large internal volume. This amphibious feature distinguishes KORKUT from all other existing medium calibre self-propelled air defence systems in the market today. The KORKUT system is able to carry out missions with heavy armoured platforms such as the main battle tank and armoured combat vehicles, including the ability to fire on the move, and manoeuvre natural obstacles such as river crossings, offering a significant tactical advantage.

Production line qualification and serial production activities will be carried out in accordance with the Serial Production Phase of the KORKUT Project that started with the signing of the related agreement between SSM and ASELSAN. The systems will be delivered in groups consisting of one Command and Control Vehicle and three Weapon System Vehicles. The first group of ACV-30 vehicles to be manufactured by FNSS are planned to be delivered to ASELSAN in May 2018.

FNSS and PT. Pindad, Completes Conceptual Design of KAPLAN MT

FNSS of Turkey and PT.Pindad of Indonesia have advanced on their Joint Development KAPLAN MT project. The conceptual design of KAPLAN MT has been completed and reveals during Indo Defense 2016, International Tri-Service Defence Expo & Forum.

KAPLAN MT design comprises advanced ballistic and mine protection with broad range of fire power, from close support of infantry to anti-armour. KAPLAN MT's precision direct fire capability ensures required lethality with an outstanding tactical and strategic mobility. Rear configuration power pack of the vehicle is combined with advanced electronic controlled systems and heavy duty suspension system.

The vehicle's new generation engine supplies adequate power, coupled with a fully automatic electronic controlled transmission, which results in a minimum of 20hp/ton ratio, depending on the configurable protection system. KAPLAN MT gets its advanced mobility capability from 6 wheeled suspension system built on torsion bars with double pinned tracks.

Power pack of the vehicle is equipped with high capacity cooling pack and fuel tanks. The cooling pack is cooled by an intelligent software driven hydraulic fan for optimum torque extraction and fuel economy and two separate fuel tanks provide a minimum operating range of 450km. An auxiliary power unit enables turret operation when vehicle engine is not running, by charging the battery system. Advanced battery monitoring system is also equipped for optimum power management and Silent Watch capabilities.

Interior of the vehicle is engineered carefully considering ergonomics of crew and different tactical and battlefield conditions including driving, firing and ammunition on load and unload. Special type of driver seat enables operator to have adequate field of view with accessibility to all cabin equipment.



KAPLAN MT comprises state of art modern technology platform with superior fire power supported with battle field management and laser warning systems, providing tactical awareness to the commander. It will have high end mine and ballistic protection in its class and in this sense KAPLAN MT guarantees required fire support against battlefield threads with speed of response at a very short notice, providing superior survivability and mobility on the battlefield.

Conceptual Background

KAPLAN MT brings new technologies and innovative fighting skills to the battlefield. KAPLAN MT direct-fire combat roles may include:

- Combat operations against medium and light armour, including; IFVs, APCs, reconnaissance vehicles, combat support vehicles, armoured engineering vehicles, artillery equipment, recovery vehicles and logistic support vehicles.
- Fire support tasks against; dismounted infantry, logistic support sites and defensive positions.

For these roles, the KAPLAN MT combines an effective direct-fire weapon with a capable sighting system. This combination enables KAPLAN MT to achieve first round hits at battle at long ranges. The tank can fire both AP and HE ammunitions, as well can employ secondary weapons such as 50-cal or 7.62 mm MGs for medium-range area shoots and close-range self-defence.

Although medium tanks are seen as a no-match for heavy main battle tanks (MBTs) in the 60-70 tonnes range, utilizing its stealth and mobility, KAPLAN MT can be tasked against MBTs in specific scenarios, such as mobile screening operations, flank attacks, ambush attacks, emergency delaying operations and support of friendly MBTs.

Moreover, as KAPLAN MTs tend to be more easily transported and, once on the battlefield, have very good tactical mobility and these factors, together with a reasonable level of armour and capable weapons make them suitable for other roles including:

- Rear area security tasks against light mobile or air-landed forces,
- Counter penetration roles,
- Delaying operations,
- Combat recon tasks,
- Screening operations,
- Escorting of light armour or soft-skinned vehicle convoys, and
- Deep penetration operations in the enemy's rear areas.





FNSS Exhibits KAPLAN NGAFV and TEBER-30 for the First Time at IDEX

At this year's IDEX exhibition, FNSS, one of the Turkish defence industry's leading companies, was showcased its KAPLAN New Generation Armoured Fighting Vehicle (NGAFV), the latest member of KAPLAN armoured vehicle family, together with TEBER-30, and FNSS designed gun turret.


Pursuant to the contract it signed in 1997, which covered the first export of a complete defence system by the Turkish defence industry, FNSS delivered a total of 133 Armoured Combat Vehicles (ACVs) in various configurations to UAE. Through its local office, the company, which always stands together with its customers, is continuing to provide integrated logistic support service for these vehicles. As one of the leading suppliers in UAE's land vehicles industry, FNSS will be attending the IDEX exhibition for the 13th time this year, while also celebrating its 20th anniversary in the country.


K. Nail Kurt, General Manager and CEO of FNSS, commented as follows on their cooperation with UAE, which dates to two decades: "UAE is very important customer of ours that knows what it wants, aims to get the best, and keeps its systems combat ready at all times. And we as FNSS are very pleased to be working with UAE. During the times when we were delivering the ACVs, we were a company which, despite being good at what it did, had not yet developed its own product families. Now, with our product families such as the PARS and KAPLAN, and the cooperation projects we have been conducting in various regions of the world, we are capable of offering a much broader range of solutions to UAE. We are willing and determined to continue our cooperation over the next 20 years as well."

Turkish MoD Awards FNSS, for Turkish Navy's Armoured Amphibious Assault Vehicle Program


The contract for the Armoured Amphibious Assault Vehicle (ZAHA) Project was signed between SSM and FNSS on March 7th, 2017 in Ankara. Program was initiated by the Undersecretariat for Defence Industries (SSM) to meet the amphibious armoured vehicle requirement of the Turkish Naval Forces Command. In addition to enabling the safe landing of units during landing operations, armoured amphibious assault vehicles also serve as armoured combat vehicles or armoured personnel carriers after reaching shore. During the landing phase of an operation, these vehicles are launched from landing helicopter dock (LHD) approaching the coast, and rapidly cover the several kilometres distance in between, allowing units to land with minimum delay. Once on land, they can continue taking part in operations side by side with other armoured vehicles. As vehicles that have a dual nature due to their mission requirements, armoured amphibious assault vehicles need to exhibit superior performance both at sea and on land. Only a few countries around the world have such vehicles in their inventories. Among NATO countries and allies, only a single company other than FNSS produces vehicles of this class.

ARMORED AMPHIBIOUS ASSAULT VEHICLE (ZAHA)






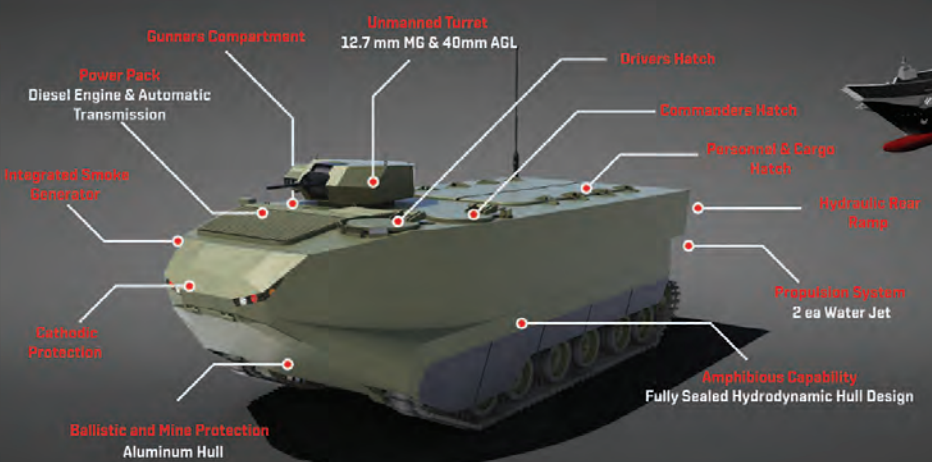
Armored Personnel Carrier



Command Vehicle

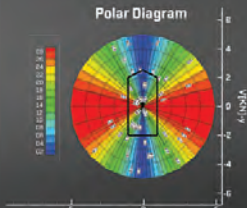


Recovery Vehicle






27ea ZAHA will be deployed at LHD



Polar Diagram



PERSONNEL CARRIER

GROSS VEHICLE WEIGHT	LENGTH	WIDTH	SEA STATE	SELF RIGHTING CAPABILITY	WATER SPEED	SIDE SLOPE	GRADIENT	VERTICAL OBSTACLE	TRENCH CROSSING
Max. 30 tonnes	8.3 m	3.3 m	4		Max. 7 Knots	40%	60%	90 cm	2 m

Under the contract signed between SSM and FNSS, the vehicles will be developed and produced by FNSS based on an indigenous development model. The FNSS will deliver a total of 27 vehicles, including 23 personnel carriers, 2 command and control vehicles and 2 recovery vehicles. The technical characteristics of the Armoured Amphibious Assault Vehicles were determined by taking into consideration the operational concept and mission requirements defined by the Turkish Naval Forces Command. Compared to similar examples, these vehicles are expected to be superior in the following respects:

- Number of personnel transported by the vehicle,
- Level of ballistic and mine protection, and
- Performance criteria on land and in water.

K. Nail Kurt, General Manager and CEO of FNSS, commented on the signed contract as follows: "Following the Anti-Tank Vehicles Project, the ZAHA contract is the second contract we have signed with SSM in the past year. Then there is also the KORKUT contract we have signed with ASELSAN. Thus, in addition to successfully maintaining our status as the largest and most important local supplier to the Turkish Land Forces Command in terms of the variety of vehicles and the duration of service, we now deservedly take pride in having become a vehicle supplier for the Turkish Naval Forces Command as well."



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