



Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium

Print

No.	Publication/Portal	Headline	Date
1	The Times of India	Rajnath unveils Bharat Forge's unmanned ground vehicle	16 September 2023
2	The Indian Express	Rajnath unveils multi-terrain unmanned ground vehicle developed in Pune by Bharat Forge	16 September 2023
3	Sakal	Rajnath unveils multi-terrain unmanned ground vehicle developed in Pune by Bharat Forge	16 September 2023
4	Maharashtra Times	Rajnath unveils multi-terrain unmanned ground vehicle developed in Pune by Bharat Forge	18 September 2023
5	Gujarat Pranam	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	14 September 2023
6	Palash News	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	14 September 2023
7	Satellite Samachar	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	14 September 2023
8	Sunvilla Samachar	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	14 September 2023
9	Tamilagam	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	15 September 2023
10	The Venus Times	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	15 September 2023
11	Adhikar	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	15 September 2023
12	Akash Jyoti	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	15 September 2023

13	Deshbandhu	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	15 September 2023
14	Vimarsh Darpan	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	15 September 2023
15	Mayur Samvad	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	15 September 2023
16	Himprabha	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	15 September 2023

Online

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1	The Times of India	Rajnath unveils Bharat Forge's unmanned ground vehicle	16 September 2023
2	The Indian Express	Rajnath unveils multi-terrain unmanned ground vehicle developed in Pune by Bharat Forge	16 September 2023
3	Raksha Anirveda	Defence Minister Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
4	Bharat Shakti	Defence Minister Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
5	India Strategic	Defence Minister Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
6	Indian Defence Industries	Defence Minister Unveils Bharat Forge's UCAV	12 September 2023
7	India Defence Research Wing	Defence Minister Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
8	Aviation Defence Universe	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
9	APN News	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023

10	NRI News 24x7	Bharat Forge's KSSL Unveils ECARS a Cutting-Edge Autonomous Military Vehicle at North Tech Symposium	12 September 2023
11	Passionate in Marketing	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
12	Mixpoint	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
13	Business Micro	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
14	Online News 9	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
15	Bizrapidx	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
16	Konexionetwork	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
17	Newsnew	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
18	Global News	Defence Minister Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
19	Sakthkhabar	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	12 September 2023
20	Sunshine Pune	Bharat Forge develops ECARS for India's defence ops	12 September 2023
21	Maharashtra Lokmanch	संरक्षण मंत्री राजनाथ सिंह यांच्या हस्ते नॉर्थ टेक सिम्पोजियम मध्ये केएसएसएलच्या ईसीएआरएसचे अनावरण	12 September 2023
22	Chandigarh City News	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	15 September 2023

23	FM Live	Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium	20 September 2023
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Print Coverage

Headline : Rajnath unveils Bharat Forge's
unmanned ground vehicle

Publication : The Times of India

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Page No: 17

Rajnath unveils Bharat Forge's unmanned ground vehicle

Pune: Bharat Forge has unveiled its enhanced collaborative autonomous rover system, a multi-purpose unmanned ground vehicle (UGV). Union Defence Minister Rajnath Singh unveiled the vehicle at the North Tech Symposium.

The UGV is equipped with remote-controlled weapon stations, water jet machines and can transport heavy materials across border and water channels.

It can be used for border surveillance, strategic asset perimeter security, riot control operations and CBRN (chemical, biological, radiological, and nuclear) incidents, fire-fighting, chemical spraying and meeting various payload requirements.

The vehicle can attain a speed of up to 20 km per hour and has a payload capacity of 350 kg and a towing payload capacity of 500 kg. It can be used for performing a wide range of missions including surveillance, security, safety, and rescue operation, a statement said. TNN

Rajnath unveils multi-terrain unmanned ground vehicle developed by Bharat Forge

EXPRESS NEWS SERVICE
PUNE, SEPTEMBER 15

THE ENHANCED Collaborative Autonomous Rover System (ECARS), a cutting-edge 4x4 multi-terrain unmanned ground vehicle (UGV), developed by Pune's Kalyani Strategic Systems Ltd, a fully-owned subsidiary of Bharat Forge, was unveiled by Defence Minister Rajnath Singh at the North Tech Symposium at IIT Jammu earlier this week.

The annual North Tech Symposium organised under the aegis of Headquarters Northern Command is a platform where the requirements of Indian Army in general are deliberated upon on a common platform with the

industry and the academia.

As per a press statement, Bharat Forge said that ECARS UGV is armed with an enhanced collision avoidance system and advanced mission planning capabilities, rendering it a dependable resource for a wide range of military situations. The speed of the system ranges between 16 and 20 km per hour, with a payload capacity of 350 kg and towing payload capacity of 500 kg.

A key feature of ECARS is its compatibility with various systems, including Remote Controlled Weapon Stations (RCWS), water jet machines and capability of transporting heavy materials. This makes ECARS a key tool for border surveillance and more.



कल्याणी स्ट्रॅटिजिक सिस्टिम्स लिमिटेडचे 'इकार्स' उपकरण.

'केएसएसएल'च्या 'इकार्स'चे अनावरण

राजनाथ सिंह यांच्या उपस्थितीत कार्यक्रम

जम्मू, ता. १४ : 'एनहान्ड कोल्बोरेटिव्ह ऑटोनॉमस रोब्डर सिस्टिम' (इकार्स) या अत्याधुनिक, ४ बाय ४, कोणत्याही पृष्ठभागावर चालेल अशा मानवविरहित 'ग्राउंड व्हेईकल'चे (यूजीव्ही) अनावरण नुकतेच संरक्षणमंत्री राजनाथ सिंह यांच्या हस्ते झाले. 'उत्तर टेक' परिसंवादात या अत्याधुनिक उपकरणाचे अनावरण करण्यात आले. भारतीय स्वायत्त लष्करी तंत्रज्ञानाच्या क्षेत्रात तसेच देशाच्या सुरक्षेच्या संदर्भातील ही घटना मैलाचा दगड ठरली आहे.

'इकार्स'ची निर्मिती भारत फोर्ज या कंपनीची उपकंपनी 'कल्याणी स्ट्रॅटिजिक सिस्टिम्स लिमिटेड' (केएसएसएल) या कंपनीकडून करण्यात आली आहे. सीमावर्ती भागात पाळत ठेवण्यासाठी तसेच दक्षता, सुरक्षितता आणि बचावकार्य यासारख्या लष्कराच्या दृष्टीने महत्त्वाच्या बाबी पार पाडण्यासाठी 'इकार्स'चा वापर करता येऊ शकतो. यामुळे लष्कराच्या कामकाजाच्यामध्ये वैविध्य आल्याचे सांगण्यात येत आहे. तसेच यातील अत्याधुनिक सुविधांमुळे हे लष्करासाठीचे मोठ्या परिशेजातील विश्वासार्ह उपकरण ठरणार आहे.

यामध्ये रिमोट कंट्रोल्ड वेपन स्टेशन (आरसीडब्ल्यूएस) तसेच वॉटर जेट मरिन्स अशा विविध प्रणालींबरोबर काम करण्याची क्षमता आहे. या प्रणालींबरोबर ते सुसंगत राहू शकते. तसेच, अवजड साधनांच्या सीमपेलीकडील वहनासाठी याचा उपयोग होऊ शकतो. तसेच जल्मगातही याचा वापर करता येणे शक्य आहे, अशी माहिती देण्यात आली.

लष्कराच्या तंत्रज्ञानाच्या दृष्टीने 'इकार्स'चे अनावरण ही महत्त्वाची घटना आहे. यामधील अत्याधुनिक वैशिष्ट्यांमुळे हे उपकरण देशाच्या सुरक्षेकरीता महत्त्वाचे ठरेल, असा मला विश्वास आहे. लष्कराच्या अनेक मोहिमांसाठी हे उपयुक्त आहे. लष्कराच्या तंत्रज्ञानात नावीन्य आणण्याची कंपनीची वचनबद्धता या उपकरणाच्या माध्यमातून प्रतित होते.

- अमित कल्याणी, सह व्यवस्थापकीय संचालक, भारत फोर्ज

'इकार्स'मधील अत्याधुनिक सुविधा

- जमिनीवर अथवा पाण्यातही वापर शक्य
- सुमारे ४५ अंशांपर्यंतची घटण पार करण्याची क्षमता
- उणे ४० अंश सेल्सिअस ते ४० अंश सेल्सिअस तापमानात काम करण्याची क्षमता
- रेडिओ फ्रिक्वेन्सी अथवा वाय-फाय यंत्रणेद्वारे नियंत्रण शक्य
- टक्कर टाळण्याची यंत्रणा
- मिशनचे नियोजन करण्याच्या दृष्टीने सुसज्ज
- प्रतितास १६ ते २० किलोमीटर वेग
- पेलोड क्षमता ३५० किलोग्रॅम
- वहन क्षमता ५०० किलोग्रॅम

उपकरणाची वैशिष्ट्ये

- टेहळणी करण्यासाठी उपयोगी
- सामरिक मालमतेच्या सुरक्षेसाठी वापरण्यायोग्य
- दंगल नियंत्रणासाठी वापरता येऊ शकते
- रासायनिक, जैविक, किरणोत्सारी व आण्विक घटनांच्या नोंदीसाठी
- आगीच्या घटनांचा सामना करण्यासाठी
- रासायनिक फवारणीसाठी उपयुक्त

मानवरहित वाहनाद्वारे सीमेवर पाळत

पुण्यातील कल्याणी स्ट्रॅटिजिक सिस्टीम्सकडून विकास

म. टा. प्रतिनिधी, पुणे

सीमेवर शत्रुवर पाळत देवणे, वेगवेगळ्या आपत्कालीन परिस्थितीत बचाव कार्ये करणे आणि शेकडो किलो यजनाचा भार वाहून नेणे, अशी वेगवेगळी कामगिरी बजावू शकणारे मानवरहित वाहन तयार करणे लक्षात राहिले आहे. '४ बाय ४ मल्टी-टरेन अनर्मंड ग्राउंड कॅडॅकल असे या वाहनाचे नाव असून, त्यामध्ये 'एन्हान्स कोल्विगेटिव्ह ऑटोनॉमस रोबोट सिस्टीम' (ईसीएआरएस) ही यंत्रणा विकसित करण्यात आली आहे. पुण्यातील भारत फोर्जेच्या कल्याणी स्ट्रॅटिजिक सिस्टीम्स लिमिटेड या कंपनीने हे वाहन विकसित केले असून, सीमा भागात विविध मोहिमांसाठी त्याचा वापर करणे शक्य होणार आहे. 'ईसीएआरएस'मध्ये टक्कर टाळण्याची प्रणाली विकसित करण्यात आली आहे. म्हणजे वाहनामध्ये कोणताही माणूस नसताना समोरून येणारे वेगळ्या कोणत्याही प्रकारच्या चालूला चकव देण्याची क्षमता यामध्ये

आहे. याचा वेग प्रति तास १६ ते २० किमी दरम्यान असून, पेलोड क्षमता ३५० किलो व टोईंग पेलोड क्षमता ५०० किलो एवढी आहे.

रिमोट कंट्रोल वेपन स्टेशन्स (आरसीडब्ल्यूएस), वॉटर जेट मशिनस यासारख्या वेगवेगळ्या यंत्रणा या मध्ये बसवण्यात आल्या आहेत. सीमा व जलवाहिन्या ओलांडून अवजड सामग्रीची वाहतूक यासाठीही ईसीएआरएस वापरले जाऊ शकते. या सर्व यंत्रणांमुळे सीमेवर पाळत देण्याबाबत, स्ट्रॅटिजिक एंसेट पेरिमीटर सिक्युरिटी, दंगल नियंत्रण, सीबीआरएन (केमिकल, बायोलॉजिकल, रेडिओलॉजिकल आणि न्यूक्लियर) घटना, आग विझवणे, रसायन फवारणी आणि विविध पेलोड आवश्यकता पूर्ण करण्याच्या मोहिमांमध्ये हे वाहन उपयुक्त ठरणार आहे.

हे वाहन कोणत्याही प्रकारच्या भूप्रदेशांमध्ये फिरण्यासाठी सज्ज असून भूप्रदेशांमध्ये कोणतेही अडथळे पार करण्याची क्षमता यामध्ये विकसित करण्यात आली आहे. या मुळे सीमाभागातील वाळवंट, डोंगरदऱ्या किंवा बर्फाच्छिन्न प्रदेशांमध्ये या वाहनाची कार्यक्षमता तितकीच राहिली, असा विश्वास विकासकांकडून व्यक्त करण्यात आला आहे.



कल्याणी सिस्टीम्सने विकसित केलेले मानवरहित वाहन.

ईसीएआरएस हा लष्करी तंत्रज्ञानातील एक महत्त्वाचा टप्पा आहे. हे एक अष्टपैलू, वेगवेगळ्या परिस्थितीशी जुळवून घेणारे मानवरहित, जमिनीवरचे वाहन आहे, ज्यामध्ये सर्व प्रकारच्या भूप्रदेशांमध्ये काम करण्याच्या क्षमता असून, त्यामुळे आपल्या राष्ट्रीय सुरक्षेला बळकटी येईल.

- अमित कल्याणी, व्यवस्थापकीय संचालक, भारत फोर्जे लिमिटेड

'ईसीएआरएस' ची वैशिष्ट्ये

- सीमेवर पाळत देण्यासाठीच्या सर्व उपकरणांनी युक्त असलेले मानवरहित वाहन
- पेलोड क्षमता ३५० किलो व टोईंग पेलोड क्षमता ५०० किलो
- रिमोट कंट्रोल वेपन स्टेशन्स (आरसीडब्ल्यूएस), वॉटर जेट मशिनससारख्या यंत्रणांमुळे आपत्कालीन परिस्थितीत बचाव कार्य करू शकणार
- दंगल नियंत्रण, सीबीआरएन (केमिकल, बायोलॉजिकल, रेडिओलॉजिकल आणि न्यूक्लियर) घटना, आग विझवणे, रसायन फवारणी या सारख्या मोहिमांसाठीही सज्ज

સંરક્ષણ મંત્રી શ્રી રાજનાથ સિંહે નોર્થ ટેક સિમ્પોઝિયમમાં KSSLના ECARSનું અનાવરણ કર્યું



જમ્મુ, ૧૨ સપ્ટેમ્બર ૨૦૨૩:
માનનીય સંરક્ષણ મંત્રી શ્રી રાજનાથ સિંહે આજે નોર્થ ટેક સિમ્પોઝિયમમાં એન્હાન્સ્ડ કોલેબોરેટિવ ઓટોનોમસ રોવર સિસ્ટમ (ECARS) એક અત્યાધુનિક 4x4 મલ્ટી-ટેરેન માનવરહિત ગ્રાઉન્ડ વ્હીકલ (UGV) નું અનાવરણ કર્યું. આ ઘટના સ્વાયત્ત લશ્કરી ટેકનોલોજી અને રાષ્ટ્રીય સુરક્ષાના ક્ષેત્રમાં એક મહત્વપૂર્ણ સીમાચિહ્નરૂપ છે. ભારત ફોર્જની

સંપૂર્ણ માલિકીની પેટાકંપની કલ્યાણી સ્ટ્રેટેજિક સિસ્ટમ્સ લિમિટેડ દ્વારા વિકસિત ECARS ઓટોનોમસ લશ્કરી ટેકનોલોજીના ક્ષેત્રે નવીનતામાં મોખરે છે. સર્વેલન્સ, સિક્યોરિટી, સલામતી અને બચાવ કામગીરી સહિત મિશનની વિશાળ રેન્જ માટે રચાયેલ ECARS લશ્કરી કામગીરીમાં વૈવિધ્યતાનું નવું સ્તર લાવે છે. ECARS UGV એ એન્હાન્સ્ડ કોલેબોરેટિવ એવોઈડન્સ સિસ્ટમ અને એડવાન્સ્ડ મિશન આયોજન ક્ષમતાઓથી સજ્જ છે. તે તેને મિલિટરી પરિસ્થિતિઓની વિશાળ શ્રેણી માટે વિશ્વાસપાત્ર રિસોર્સ બનાવે છે. તેની ઝડપ ૧૬ થી ૨૦ કિલોમીટર પ્રતિ કલાકની વચ્ચે છે, પેલોડ કેપેસિટી ૩૫૦ કિલો અને ૫૦૦ કિલોની ટોઈંગ પેલોડ ક્ષમતા છે.

रक्षा मंत्री श्री. राजनाथ सिंह ने नॉर्थ टेक संगोष्ठी में केएसएसएल के ईसीएआरएस का अनावरण किया

जम्मू, 12 सितंबर 2023- माननीय रक्षा मंत्री, श्री राजनाथ सिंह के रूप में नॉर्थ टेक संगोष्ठी आज एक अभूतपूर्व क्षण का गवाह बनी। राजनाथ सिंह ने एक अत्याधुनिक 4x4 मल्टी-टैरन मानव रहित ग्राउंड वाहन (GV) एन्हांस्ड कोलैबोरेटिव ऑटोनॉमस रोवर सिस्टम (ECARS) का अनावरण किया। यह घटना स्वायत्त सैन्य प्रौद्योगिकी और राष्ट्रीय सुरक्षा के क्षेत्र में एक महत्वपूर्ण मील का पत्थर साबित हुई। भारत फोर्ज की पूर्ण स्वामित्व वाली सहायक कंपनी कल्याणी स्ट्रैटेजिक सिस्टम्स लिमिटेड द्वारा विकसित ईसीएआरएस, स्वायत्त सैन्य प्रौद्योगिकी क्षेत्र के इनोवेशन में सबसे आगे है। निगरानी, सुरक्षा और बचाव कार्यों सहित मिशनों की एक विस्तृत श्रृंखला का

प्रदर्शन करने के लिए इसे डिज़ाइन किया गया है। यह ECARS सैन्य अभियानों में बहुमुखी प्रतिभा का एक नया स्तर लाता है। ECARS यूजीवी एक उन्नत टकराव बचाव प्रणाली और उन्नत मिशन योजना क्षमताओं से लैस है, जो इसे सैन्य स्थितियों की एक विस्तृत श्रृंखला के लिए एक भरोसेमंद संसाधन प्रदान करता है। इसकी रफ्तार 16 से 20 किलोमीटर प्रति घंटे के बीच होती है। इसमें पेलोड क्षमता 350 किलोग्राम और टोइंग पेलोड क्षमता 500 किलोग्राम होती है। ECARS की प्रमुख विशेषताओं में से एक विभिन्न प्रणालियों के साथ इसकी अनुकूलता है, जिसमें रिमोट नियंत्रित हथियार स्टेशन (आरसीडब्ल्यूएस), वॉटर जेट मशीनें और पूरी सीमा पर जल चैनलों

की भारी सामग्री का परिवहन शामिल है। यह अनुकूलन क्षमता ECARS को सीमा निगरानी, रणनीतिक संपत्ति परिधि सुरक्षा, दंगा नियंत्रण संचालन, सीबीआरएन (रासायनिक, जैविक, रेडियोलॉजिकल और परमाणु) घटनाओं, अग्निशमन, रासायनिक छिड़काव और विभिन्न पेलोड आवश्यकताओं को पूरा करने के लिए एक जरूरी संसाधन बनाती है। कंपनी की इस उल्लेखनीय उपलब्धि पर भारत फोर्ज लिमिटेड के संयुक्त प्रबंध निदेशक, श्री अमित कल्याणी ने कहा, ECARS सैन्य प्रौद्योगिकी में एक महत्वपूर्ण प्रतिनिधित्व करता है। यह एक बहुमुखी, अनुकूलनीय मानव रहित ग्राउंड वाहन है जो पानी में भी उपयोगी है और इसमें हमारे राष्ट्रीय स्तर



की सुरक्षा को बढ़ाने के लिए सभी इलाके की क्षमताएं हैं। ECARS की उन्नत क्षमताएं इसे निगरानी से लेकर सुरक्षा तक विभिन्न सैन्य अभियानों में एक मूल्यवान संपत्ति बनाती हैं। यह रक्षा प्रौद्योगिकी की सीमाओं को आगे बढ़ाने के लिए केएसएसएल की प्रतिबद्धता को प्रदर्शित करती हैं। वाली भारत फोर्ज की प्रतिबद्धता को दर्शाता है।

સંરક્ષણ મંત્રી શ્રી રાજનાથ સિંહે નોર્થ ટેક સિમ્પોઝિયમમાં KSSLના ECARSનું અનાવરણ કર્યું



જમ્મુ, ૧૨ સપ્ટેમ્બર ૨૦૨૩: માનનીય સંરક્ષણ મંત્રી શ્રી રાજનાથ સિંહે આજે નોર્થ ટેક સિમ્પોઝિયમમાં એન્ડાન્સ કોલેબોરેટિવ ઓટોનોમસ રોવર સિસ્ટમ (ECARS) એક અત્યાધુનિક 4x4 મલ્ટી-ટેરેન માનવરહિત ગ્રાઉન્ડ વ્હીકલ (UGV) નું અનાવરણ કર્યું. આ ઘટના સ્વાયત્ત લશ્કરી ટેકનોલોજી અને રાષ્ટ્રીય સુરક્ષાના ક્ષેત્રમાં એક મહત્વપૂર્ણ સીમાચિહ્નરૂપ છે. ભારત ફોર્જની સંપૂર્ણ માલિકીની પેટાકંપની કલ્યાણી સ્ટ્રેટેજિક સિસ્ટમ્સ લિમિટેડ દ્વારા વિકસિત ECARS ઓટોનોમસ લશ્કરી ટેકનોલોજીના ક્ષેત્રે નવીનતામાં મોખરે છે. સર્વેલન્સ, સિક્યોરિટી, સલામતી અને બચાવ કામગીરી સહિત મિશનની વિશાળ રેન્જ માટે રચાયેલ

ECARS લશ્કરી કામગીરીમાં વૈવિધ્યતાનું નવું સ્તર લાવે છે. ECARS UGV એ એન્ડાન્સ કોલેબોરેટિવ એવોઈડન્સ સિસ્ટમ અને એડવાન્સ મિશન આયોજન ક્ષમતાઓથી સજ્જ છે. તે તેને મિલિટરી પરિસ્થિતિઓની વિશાળ શ્રેણી માટે વિશ્વાસપાત્ર રિસોર્સ બનાવે છે. તેની ઝડપ ૧૬થી ૨૦ કિલોમીટર પ્રતિ કલાકની વચ્ચે છે, પેલોડ કેપેસિટી ૩૫૦ કિલો અને ૫૦૦ કિલોની ટોઈંગ પેલોડ ક્ષમતા છે. ECARSની મુખ્ય વિશેષતાઓ પૈકી એક વિશેષતા રિમોટ કંટ્રોલ્ડ વેપન સ્ટેશન્સ (ઈઝઈજી), વોટર જેટ મશીનો અને બોર્ડર અને વોટર ચેનલો પર હેવી મટિરિયલના પરિવહન સહિતની વિવિધ સિસ્ટમો સાથે સુસંગતતા છે. આ અનુકૂલનક્ષમતા ECARS ને સરહદ પર સર્વેલન્સ, સ્ટ્રેટેજિક એસેટ પેરિમીટર સિક્યોરિટી, રાયટ કન્ટ્રોલ કામગીરી, ઝમ્બદ્ર (કેમિકલ, બાયોલોજિકલ, રેડિયોલોજીકલ અને ન્યુક્લિયર) ઘટનાઓ, અગ્નિશામક, કેમિકલ સ્પ્રેઈંગ અને વિવિધ પેલોડ આવશ્યકતાઓને પૂર્ણ કરવા માટે આવશ્યક સાધન બનાવે છે.

ભારત ફોર્જ લિમિટેડના જોઈન્ટ મેનેજિંગ ડિરેક્ટર શ્રી અમિત કલ્યાણીએ આ નોંધપાત્ર સિદ્ધિ અંગે ટિપ્પણી કરતાં જણાવ્યું કે, "ઈઝઈજી મિલિટરી ટેકનોલોજીમાં એક મહત્વની બાબત છે. તે બહુઉપયોગી, અનુકૂલનક્ષમ માનવરહિત ગ્રાઉન્ડ વ્હીકલ છે જે પાણી અને જમીન બંને પર કામ કરી શકે છે, આપણી રાષ્ટ્રીય સુરક્ષાને વધારવા માટે ઓલ ટેરેઈન ક્ષમતા ધરાવે છે. ઈઝઈજી ની અદ્યતન ક્ષમતાઓ તેને સર્વેલન્સથી લઈને સુરક્ષા સુધી વિવિધ સૈન્ય કામગીરીમાં ઉપયોગી બનાવે છે, તથા તે ડિફેન્સ ટેકનોલોજીને આગળ લઈ જવા માટે દ્વિજાતીની પ્રતિબદ્ધતા દર્શાવે છે."

નોર્થ ટેક સિમ્પોઝિયમમાં સંરક્ષણ મંત્રી દ્વારા ઈઝઈજીનું અનાવરણ એ ઈનોવેશન અને અત્યાધુનિક ટેકનોલોજી દ્વારા તેની સંરક્ષણ ક્ષમતાઓને વધારવા તરફ ભારતના પ્રયાસોમાં મહત્વની સફળતા છે. ECARSનો વિકાસ ભારત ફોર્જની પ્રતિબદ્ધતા દર્શાવે છે જે રાષ્ટ્રીય સુરક્ષા માટે ટેકનોલોજી શ્રેષ્ઠતાની સીમાઓને આગળ ધપાવે છે.

Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium



Sunvilla News : Ahmedabad

The North Tech Symposium today witnessed a groundbreaking moment as the Honourable Minister of Defence, Shri. Rajnath Singh, unveiled the Enhanced Collaborative Autonomous Rover System (ECARS), a cutting-edge 4x4 multi-terrain unmanned ground vehicle (UGV). This event marked a significant milestone in the realm of autonomous military technology and national security.

Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium

Chennai : The North Tech Symposium today witnessed a groundbreaking moment as the Honourable Minister of Defence, Shri. Rajnath Singh, unveiled the Enhanced Collaborative Autonomous Rover System (ECARS), a cutting-edge 4x4 multi-terrain unmanned ground vehicle (UGV). This event marked a significant milestone in the realm of autonomous military technology and national security.

ECARS, developed by Kalyani Strategic Systems Ltd, a fully-owned subsidiary of Bharat Forge, stands at the forefront of innovation in the

field of autonomous military technology. Designed to perform a wide range of missions including surveillance, security, safety, and rescue operations, ECARS brings a new level of versatility to military operations.

The ECARS UGV is armed with an enhanced collision avoidance system and advanced mission planning capabilities, rendering it a dependable resource for a wide range of military situations. The speed ranges between 16 and 20 kilometres per hour, with a payload capacity of 350 Kg and a towing payload capacity of 500 Kg.

શ્રી રાજનાથ સિંહે નોર્થ ટેક સિમ્પોઝિયમમાં KSSLના ECARSનું અનાવરણ કર્યું



અમદાવાદ, તા. ૧૩

માનનીય સંરક્ષણ મંત્રી શ્રી રાજનાથ સિંહે આજે નોર્થ ટેક સિમ્પોઝિયમમાં એન્ડાન્સ કોલેબોરેટિવ ઓટોનોમસ રોવર સિસ્ટમ એક અત્યાધુનિક ઝટઝ મલ્ટી-ટેરેન માનવરહિત ગ્રાઉન્ડ વ્હીકલ નું અનાવરણ કર્યું. આ ઘટના સ્વાયત્ત લશ્કરી ટેકનોલોજી અને રાષ્ટ્રીય સુરક્ષાના ક્ષેત્રમાં એક મહત્વપૂર્ણ સીમાચિહ્નરૂપ છે. ભારત ફોર્જની સંપૂર્ણ માલિકીની પેટાકંપની કલ્યાણી સ્ટ્રેટેજિક સિસ્ટમ્સ લિમિટેડ દ્વારા વિકસિત ECARS ઓટોનોમસ લશ્કરી ટેકનોલોજીના ક્ષેત્રે નવીનતામાં મોખરે છે. સર્વેલન્સ, સિક્યોરિટી, સલામતી અને બચાવ કામગીરી સહિત મિશનની વિશાળ રેન્જ માટે રચાયેલ ECARS લશ્કરી કામગીરીમાં વૈવિધ્યતાનું નવું સ્તર લાવે છે. ECARS UGV એ એન્ડાન્સ કોલાઈઝન એવોઈડન્સ સિસ્ટમ અને એડવાન્સ મિશન આયોજન ક્ષમતાઓથી સજ્જ છે. તે તેને મિલિટરી પરિસ્થિતિઓની વિશાળ શ્રેણી માટે વિશ્વાસપાત્ર રિસોર્સ બનાવે

છે. તેની ઝડપ ૧૬થી ૨૦ કિલોમીટર પ્રતિ કલાકની વચ્ચે છે, પેલોડ કેપેસિટી ૩૫૦ કિલો અને ૫૦૦ કિલોની ટોઈંગ પેલોડ ક્ષમતા છે. ECARSની મુખ્ય વિશેષતાઓ પૈકી એક વિશેષતા રિમોટ કંટ્રોલ વેપન સ્ટેશન્સ, વોટર જેટ મશીનો અને બોર્ડર અને વોટર ચેનલો પર હેવી મટિરિયલના પરિવહન સહિતની વિવિધ સિસ્ટમો સાથે સુસંગતતા છે. આ અનુકૂલનક્ષમતા ECARS ને સરહદ પર સર્વેલન્સ, સ્ટ્રેટેજિક એસેટ પેરિમીટર સિક્યોરિટી, રાયટ કન્ટ્રોલ કામગીરી, ઝમ્બદ્ર (કેમિકલ, બાયોલોજિકલ, રેડિયોલોજિકલ અને ન્યુક્લિયર) ઘટનાઓ, અગ્નિશામક, કેમિકલ સ્પ્રેઈંગ અને વિવિધ પેલોડ આવશ્યકતાઓને પૂર્ણ કરવા માટે આવશ્યક સાધન બનાવે છે. ભારત ફોર્જ લિમિટેડના જોઈન્ટ મેનેજિંગ ડિરેક્ટર શ્રી અમિત કલ્યાણીએ આ નોંધપાત્ર સિદ્ધિ અંગે ટિપ્પણી કરતાં જણાવ્યું કે, xECARS મિલિટરી ટેકનોલોજીમાં એક મહત્વની બાબત છે. તે બહુઉપયોગી, અનુકૂલનક્ષમ માનવરહિત ગ્રાઉન્ડ વ્હીકલ છે જે પાણી અને જમીન બંને પર કામ કરી શકે છે, આપણી રાષ્ટ્રીય સુરક્ષાને વધારવા માટે ઓલ ટેરેઈન ક્ષમતા ધરાવે છે. ECARS ની અદ્યતન ક્ષમતાઓ તેને સર્વેલન્સથી લઈને સુરક્ષા સુધી વિવિધ સૈન્ય કામગીરીમાં ઉપયોગી બનાવે છે, તથા તે ડિકેન્સ ટેકનોલોજીને આગળ લઈ જવા માટે KSSLની પ્રતિબદ્ધતા દર્શાવે છે. x

रक्षा मंत्री ने किया ईसीएआरएस का अनावरण

▶▶ हाइड्रॉती अधिकार

नयी दिल्ली, 14 सितम्बर। रक्षा मंत्री राजनाथ सिंह के रूप में नॉर्थ टेक संगोष्ठी आज एक अभूतपूर्व क्षण का गवाह बनी। राजनाथ सिंह ने एक अत्याधुनिक 4 गुना 4 मल्टी-टैरेन मानव रहित ग्राउंड वाहन (यूजीवी) एन्हांस्ड कोलैबोरेटिव ऑटोनॉमस रोवर सिस्टम (ईसीएआरएस) का अनावरण किया। यह घटना स्वायत्त सैन्य प्रौद्योगिकी और राष्ट्रीय सुरक्षा के क्षेत्र में एक महत्वपूर्ण मील का पत्थर साबित हुई।

भारत फोर्ज की पूर्ण स्वामित्व वाली सहायक कंपनी कल्याणी स्ट्रैटेजिक सिस्टम्स लिमिटेड द्वारा विकसित ईसीएआरएस, स्वायत्त सैन्य प्रौद्योगिकी क्षेत्र के इनोवेशन में सबसे आगे है। निगरानी, सुरक्षा और बचाव कार्यों सहित मिशनों की एक विस्तृत श्रृंखला का प्रदर्शन करने के लिए इसे डिजाइन किया गया है। यह ईसीएआरएस सैन्य अभियानों में बहुमुखी प्रतिभा का एक नया स्तर लाता है।

ईसीएआरएस यूजीवी एक उन्नत टकराव बचाव प्रणाली और उन्नत मिशन योजना क्षमताओं से लैस है, जो इसे सैन्य स्थितियों की एक विस्तृत श्रृंखला



के लिए एक भरोसेमंद संसाधन प्रदान करता है। इसकी रफ्तार 16 से 20 किलोमीटर प्रति घंटे के बीच होती है। इसमें पेलोड क्षमता 350 किलोग्राम और टोइंग पेलोड क्षमता 500 किलोग्राम होती है। ईसीएआरएस की प्रमुख विशेषताओं में से एक विभिन्न प्रणालियों के साथ इसकी अनुकूलता है, जिसमें रिमोट नियंत्रित हथियार स्टेशन (आरसीडब्ल्यूएस), वॉटर जेट मशीनें और पूरी सीमा पर जल चौनलों की भारी

सामग्री का परिवहन शामिल है।

यह अनुकूलन क्षमता ईसीएआरएस को सीमा निगरानी, घ्रणनीतिक संपत्ति परिधि सुरक्षा, दंगा नियंत्रण संचालन, सीबीआरएन (रासायनिक, जैविक, रेडियोलॉजिकल और परमाणु) घटनाओं, अग्निशमन, रासायनिक छिड़काव और विभिन्न पेलोड आवश्यकताओं को पूरा करने के लिए एक जरूरी संसाधन बनाती है।

कंपनी की इस उल्लेखनीय उपलब्धि पर भारत फोर्ज लिमिटेड के संयुक्त प्रबंध निदेशक, अमित कल्याणी ने कहा, ईसीएआरएस सैन्य प्रौद्योगिकी में एक महत्वपूर्ण प्रतिनिधित्व करता है। यह एक बहुमुखी, अनुकूलनीय मानव रहित ग्राउंड वाहन है जो पानी में भी उपयोगी है और इसमें हमारे राष्ट्रीय स्तर की सुरक्षा को बढ़ाने के लिए सभी इलाके की क्षमताएं हैं।

रक्षा मंत्री श्री. राजनाथ सिंह ने नॉर्थ टेक संगोष्ठी में केएसएसएल के ईसीएआरएस का अनावरण किया



New Delhi, 14 सितंबर 2023:

माननीय रक्षा मंत्री, श्री राजनाथ सिंह के रूप में नॉर्थ टेक संगोष्ठी आज एक अभूतपूर्व क्षण का गवाह बनी। राजनाथ सिंह ने एक अत्याधुनिक 4x4 मल्टी-टैरेन मानव रहित ग्राउंड वाहन (एचए3-उड) का अनावरण किया। यह घटना स्वायत्त सैन्य प्रौद्योगिकी और राष्ट्रीय सुरक्षा के क्षेत्र में एक महत्वपूर्ण मील का पत्थर साबित हुई। भारत फोर्स की पूर्ण स्वामित्व वाली सहायक कंपनी कल्याणी स्टैटेजिक सिस्टम्स लिमिटेड द्वारा विकसित ईसीएआरएस, स्वायत्त सैन्य प्रौद्योगिकी क्षेत्र के इन्वेंशन में सबसे आगे है। निगरानी, सुरक्षा और बचाव कार्यों सहित मिशनों की एक विस्तृत शृंखला का प्रदर्शन करने के लिए इसे डिजाइन किया गया है। यह ए3-उड सैन्य अभियानों में बहुमुखी प्रतिभा का एक नया स्तर लाता है। ए3-उड पूर्वी एक उन्नत टकराव बचाव प्रणाली और उन्नत मिशन योजना क्षमताओं से लैस है, जो इसे सैन्य स्थितियों की एक विस्तृत शृंखला के लिए एक भरोसेमंद संसाधन प्रदान करता है। इसकी रफ्तार 1.6 से 2.0

किलोमीटर प्रति घंटे के बीच होती है। इसमें पेलोड क्षमता 350 किलोग्राम और टोपिंग पेलोड क्षमता 500 किलोग्राम होती है।

ए3-उड की प्रमुख विशेषताओं में से एक विभिन्न प्रणालियों के साथ इसकी अनुकूलता है, जिसमें रिमोट नियंत्रित हथियार स्टेशन (आरसीडब्ल्यूएस), वॉटर जेट मशीनें और पूरी सीमा पर जल चैनलों की भारी सामग्री का परिवहन शामिल है। यह अनुकूलन क्षमता ए3-उड को सीमा निगरानी, रणनीतिक संरक्षित परिधि सुरक्षा, रक्षा नियंत्रण संचालन, सीबीआरएन (रासायनिक, जैविक, रेडियोलॉजिकल और परमाणु) घटनाओं, अग्निशमन, रासायनिक छिड़काव और विभिन्न पेलोड आवस्यकताओं को पूरा करने के लिए

एक जल्दी संसाधन बनती है। कंपनी की इस उल्लेखनीय उपलब्धि पर भारत फोर्स लिमिटेड के संयुक्त प्रबंध निदेशक, श्री अमित कल्याणी ने कहा, ए3-उड सैन्य प्रौद्योगिकी में एक महत्वपूर्ण प्रतिनिधित्व करता है। यह एक बहुमुखी, अनुकूलनीय मानव रहित ग्राउंड वाहन है जो पानी में भी उपयोगी है और इसमें हमारे राष्ट्रीय स्तर की सुरक्षा को बढ़ाने के लिए सभी इलाके की क्षमताएं हैं। ए3-उड की उन्नत क्षमताएं इसे निगरानी से लेकर सुरक्षा तक विभिन्न सैन्य अभियानों में एक मूल्यवान संरक्षित बनाती हैं। यह रक्षा प्रौद्योगिकी की सीमाओं को आगे बढ़ाने के लिए केएसएसएल की प्रतिबद्धता को प्रदर्शित करती है। नॉर्थ टेक संगोष्ठी में रक्षा मंत्री द्वारा ए3-उड का अनावरण इन्वेंशन और अत्याधुनिक प्रौद्योगिकी के माध्यम से अपनी रक्षा क्षमताओं को बढ़ाने की दिशा में भारत की यात्रा में एक महत्वपूर्ण क्षण है। ए3-उड का विकास राष्ट्रीय सुरक्षा के समर्थन में तकनीकी उत्कृष्टता की सीमाओं को आगे बढ़ाने वाली भारत फोर्स की प्रतिबद्धता को दर्शाता है।

मानव रहित ग्राउंड वाहन ईसीएआरएस का अनावरण किया

नई दिल्ली, 14 सितम्बर (देशबन्धु)। रक्षा मंत्री राजनाथ सिंह ने एक अत्याधुनिक 4 बाय 4 मल्टी-टेरेन मानव रहित ग्राउंड वाहन एन्हांसड कोलैबोरेटिव ऑटोनॉमस रोवर सिस्टम का अनावरण किया। यह घटना स्वायत्त सैन्य प्रौद्योगिकी और राष्ट्रीय सुरक्षा के क्षेत्र में एक महत्वपूर्ण मील का पत्थर साबित हुई। भारत फोर्ज की पूर्ण स्वामित्व वाली सहायक कंपनी कल्याणी स्ट्रैटेजिक सिस्टम्स लिमिटेड द्वारा विकसित ईसीएआरएस, स्वायत्त सैन्य प्रौद्योगिकी क्षेत्र के इनोवेशन में सबसे आगे है। निगरानी, सुरक्षा और बचाव कार्यों सहित मिशनों की एक विस्तृत शृंखला का प्रदर्शन करने के लिए इसे डिज़ाइन किया गया है। यह ईसीएआरएस सैन्य अभियानों में बहुमुखी प्रतिभा का एक नया स्तर लाता है। कंपनी की इस उल्लेखनीय उपलब्धि पर भारत फोर्ज लिमिटेड के संयुक्त प्रबंध निदेशक अमित कल्याणी ने कहा, 'ईसीएआरएस सैन्य प्रौद्योगिकी में एक महत्वपूर्ण प्रतिनिधित्व करता है।

रक्षा मंत्री श्री राजनाथ सिंह ने नॉर्थ टेक संगोष्ठी में केएसएसएल के ईसीएआरएस का अनावरण किया

नई दिल्ली। रक्षा मंत्री राजनाथ सिंह के रूप में नॉर्थ टेक संगोष्ठी आज एक अभूतपूर्व क्षण का गवाह बनी। राजनाथ सिंह ने एक अत्याधुनिक 4x4 मल्टी-टैरेन मानव रहित ग्राउंड वाहन एन्हांसड कॉलेबोरेटिव ऑटोनॉमस रोवर सिस्टम का अनावरण किया। यह घटना स्वायत्त सैन्य प्रौद्योगिकी और राष्ट्रीय सुरक्षा के क्षेत्र में एक महत्वपूर्ण मील का पत्थर साबित हुई। भारत फोर्स की पूर्ण स्वामित्व वाली सहायक कंपनी कल्याणी स्ट्रैटेजिक सिस्टम्स लिमिटेड द्वारा विकसित ईसीएआरएस, स्वायत्त सैन्य प्रौद्योगिकी क्षेत्र के इन्वेंशन में सबसे आगे है। निगरानी, सुरक्षा और बचाव कार्यों सहित मिशनों की एक विस्तृत शृंखला का प्रदर्शन करने के लिए इसे डिज़ाइन किया गया है। यह सशस्त्र सैन्य अभियानों में बहुमुखी प्रतिभा का एक नया स्तर लाता है। एन्हांसड कॉलेबोरेटिव ऑटोनॉमस रोवर सिस्टम कुजीवी एक उन्नत टकराव बचाव प्रणाली और उन्नत मिशन योजना क्षमताओं से लैस है, जो इसे सैन्य स्थितियों की एक विस्तृत शृंखला के लिए एक भरोसेमंद संसाधन प्रदान करता है। इसकी रफ्तार 16 से 20 किलोमीटर प्रति घंटे के बीच होती है।

6 व्यापार/विविध

संक्षिप्त समाचार

रक्षा मंत्री श्री. राजनाथ सिंह ने नॉर्थ टेक संगोष्ठी में केएसएसएल के ईसीएआरएस का अनावरण किया

संवाददाता (दिल्ली):- माननीय रक्षा मंत्री, श्री राजनाथ सिंह के रूप में नॉर्थ टेक संगोष्ठी आज एक अभूतपूर्व क्षण का गवाह बनी। राजनाथ सिंह ने एक अत्याधुनिक 4x4 मल्टी-टैरेन मानव रहित ग्राउंड वाहन एन्हांस्ड कोलैबोरेटिव ऑटोनॉमस रोवर सिस्टम (ECARS) का अनावरण किया। यह घटना स्वायत्त सैन्य प्रौद्योगिकी और राष्ट्रीय सुरक्षा के क्षेत्र में एक महत्वपूर्ण मील का पत्थर साबित हुई। भारत फोर्ज की पूर्ण स्वामित्व वाली सहायक कंपनी कल्याणी स्ट्रैटेजिक सिस्टम्स लिमिटेड द्वारा विकसित ईसीएआरएस, स्वायत्त सैन्य प्रौद्योगिकी क्षेत्र के इनोवेशन में सबसे आगे है। निगरानी, सुरक्षा और बचाव कार्यों सहित मिशनों की एक विस्तृत श्रृंखला का प्रदर्शन करने के लिए इसे डिज़ाइन किया गया है। यह ECARS सैन्य अभियानों में बहुमुखी प्रतिभा का एक नया स्तर लाता है। ECARS यूजीवी एक उन्नत टकराव बचाव प्रणाली और उन्नत मिशन योजना क्षमताओं से लैस है, जो इसे सैन्य स्थितियों की एक विस्तृत श्रृंखला के लिए एक भरोसेमंद संसाधन प्रदान करता है। इसकी रफ्तार 16 से 20 किलोमीटर प्रति घंटे के बीच होती है। इसमें पेलोड क्षमता 350 किलोग्राम और टोइंग पेलोड क्षमता 500 किलोग्राम होती है। ECARS की प्रमुख विशेषताओं में से एक विभिन्न प्रणालियों के साथ इसकी अनुकूलता है, जिसमें रिमोट नियंत्रित हथियार स्टेशन (आरसीडब्ल्यूएस), वॉटर जेट मशीनें और पूरी सीमा पर जल चैनलों की भारी सामग्री का परिवहन शामिल है। यह अनुकूलन क्षमता श्वेत्क को सीमा निगरानी, रणनीतिक संपत्ति परिधि सुरक्षा, दंगा नियंत्रण संचालन, सीबीआरएन (रासायनिक, जैविक, रेडियोलॉजिकल और परमाणु) घटनाओं, अग्निशमन, रासायनिक छिड़काव और विभिन्न पेलोड आवश्यकताओं को पूरा करने के लिए एक जरूरी संसाधन बनाती है। कंपनी की इस उल्लेखनीय उपलब्धि पर भारत फोर्ज लिमिटेड के संयुक्त प्रबंध निदेशक, श्री अमित कल्याणी ने कहा, ऋश्वेत्क सैन्य प्रौद्योगिकी में एक महत्वपूर्ण प्रतिनिधित्व करता है। यह एक बहुमुखी, अनुकूलनीय मानव रहित ग्राउंड वाहन है जो पानी में भी उपयोगी है और इसमें हमारे राष्ट्रीय स्तर की सुरक्षा को बढ़ाने के लिए सभी इलाके की क्षमताएं हैं। ECARS की उन्नत क्षमताएं इसे निगरानी से लेकर सुरक्षा तक विभिन्न सैन्य अभियानों में एक मूल्यवान संपत्ति बनाती हैं। यह रक्षा प्रौद्योगिकी की सीमाओं को आगे बढ़ाने के लिए केएसएसएल की प्रतिबद्धता को प्रदर्शित करती है। नॉर्थ टेक संगोष्ठी में रक्षा मंत्री द्वारा ECARS का अनावरण इनोवेशन और अत्याधुनिक प्रौद्योगिकी के माध्यम से अपनी रक्षा क्षमताओं को बढ़ाने की दिशा में भारत की यात्रा में एक महत्वपूर्ण क्षण है। ECARS का विकास राष्ट्रीय सुरक्षा के समर्थन में तकनीकी उत्कृष्टता की सीमाओं को आगे बढ़ाने वाली भारत फोर्ज की प्रतिबद्धता को दर्शाता है।

रक्षा मंत्री राजनाथ सिंह ने नॉर्थ टेक संगोष्ठी में केएसएसएल के ईसीएआरएस का अनावरण किया

चंडीगढ़/जम्मू. (हिमप्रभा ब्यूरो)। माननीय रक्षा मंत्री, राजनाथ सिंह के रूप में नॉर्थ टेक संगोष्ठी आज एक अभूतपूर्व क्षण का गवाह बनी। राजनाथ सिंह ने एक अत्याधुनिक 4x4 मल्टी-टेरेन मानव रहित ग्राउंड वाहन एन्हांसड कोलैबोरेटिव ऑटोनॉमस रोवर सिस्टम का अनावरण किया। यह घटना स्वायत्त सैन्य प्रौद्योगिकी और राष्ट्रीय सुरक्षा के क्षेत्र में एक महत्वपूर्ण मील का पत्थर साबित हुई। भारत फोर्ज की पूर्ण स्वामित्व वाली सहायक कंपनी कल्याणी स्ट्रैटेजिक सिस्टम्स लिमिटेड द्वारा विकसित ईसीएआरएस, स्वायत्त सैन्य प्रौद्योगिकी क्षेत्र के इनोवेशन में सबसे आगे है। निगरानी, सुरक्षा और बचाव कार्यों सहित मिशनों की एक विस्तृत श्रृंखला का प्रदर्शन करने के लिए इसे डिजाइन किया गया है। यह ECARS सैन्य अभियानों में बहुमुखी प्रतिभा का एक नया स्तर लाता है।

ECARS यूजीवी एक उन्नत टकराव बचाव प्रणाली और उन्नत मिशन योजना क्षमताओं से लैस है, जो इसे सैन्य स्थितियों की एक विस्तृत श्रृंखला के लिए एक भरोसेमंद संसाधन प्रदान करता है। इसकी रफ्तार 16 से 20 किलोमीटर प्रति घंटे के बीच होती है। इसमें पेलोड क्षमता 350 किलोग्राम और टोइंग पेलोड क्षमता 500 किलोग्राम होती है। ECARS की प्रमुख विशेषताओं में से एक विभिन्न प्रणालियों के साथ इसकी अनुकूलता है, जिसमें रिमोट नियंत्रित हथियार स्टेशन (आरसीडब्ल्यूएस), वॉटर जेट मशीनें और पूरी सीमा पर जल चैनलों की भारी सामग्री



का परिवहन शामिल है। यह अनुकूलन क्षमता ECARS को सीमा निगरानी, रणनीतिक संपत्ति परिधि सुरक्षा, दंगा नियंत्रण संचालन, सीबीआरएन (रासायनिक, जैविक, रेडियोलॉजिकल और परमाणु) घटनाओं, अग्निशमन, रासायनिक छिड़काव और विभिन्न पेलोड आवश्यकताओं को पूरा करने के लिए एक जरूरी संसाधन बनाती है।

कंपनी की इस उल्लेखनीय उपलब्धि पर भारत फोर्ज लिमिटेड के संयुक्त प्रबंध निदेशक, अमित कल्याणी ने कहा, "ECARS सैन्य प्रौद्योगिकी में एक महत्वपूर्ण प्रतिनिधित्व करता है। यह एक बहुमुखी, अनुकूलनीय मानव रहित ग्राउंड वाहन है जो पानी में भी उपयोगी है और इसमें हमारे राष्ट्रीय स्तर की सुरक्षा को बढ़ाने के लिए सभी इलाके की क्षमताएं हैं। ECARS की उन्नत क्षमताएं इसे निगरानी से लेकर सुरक्षा तक विभिन्न सैन्य अभियानों में एक मूल्यवान संपत्ति बनाती हैं। यह रक्षा प्रौद्योगिकी की सीमाओं को आगे बढ़ाने के लिए केएसएसएल की प्रतिबद्धता को प्रदर्शित करती है। नॉर्थ टेक संगोष्ठी में रक्षा मंत्री द्वारा ECARS का अनावरण इनोवेशन और अत्याधुनिक प्रौद्योगिकी के माध्यम से अपनी रक्षा क्षमताओं को बढ़ाने की दिशा में भारत की यात्रा में एक महत्वपूर्ण क्षण है। ECARS का विकास राष्ट्रीय सुरक्षा के समर्थन में तकनीकी उत्कृष्टता की सीमाओं को आगे बढ़ाने वाली भारत फोर्ज की प्रतिबद्धता को दर्शाता है।

Online Coverage

Headline : Rajnath unveils Bharat Forge's unmanned ground vehicle	Domain : The Times of India
Date : September 12, 2023	Journalist:

<https://timesofindia.indiatimes.com/city/pune/rajnath-unveils-bharat-forges-unmanned-ground-vehicle/articleshow/103704463.cms>

Bharat Forge has unveiled its enhanced collaborative autonomous rover system, a multi-purpose unmanned ground vehicle (UGV). Union Defence Minister Rajnath Singh unveiled the vehicle at the North Tech Symposium. The UGV is equipped with remote-controlled weapon stations, water jet machines and can transport heavy materials across border and water channels. It can be used for border surveillance, strategic asset perimeter security, riot control operations and CBRN (chemical, biological, radiological, and nuclear) incidents, fire-fighting, chemical spraying and meeting various payload requirements. The vehicle can attain a speed of up to 20 km per hour and has a payload capacity of 350 kg and a towing payload capacity of 500 kg. It can be used for performing a wide range of missions including surveillance, security, safety, and rescue operation, a statement said.

Headline : Rajnath unveils multi-terrain unmanned ground vehicle developed in Pune by Bharat Forge

Domain : The Indian Express

Date : September 15, 2023

Journalist:

<https://indianexpress.com/article/cities/pune/rajnath-unveils-multi-terrain-unmanned-ground-vehicle-developed-by-bharat-forge-8941861/>

THE Enhanced Collaborative Autonomous Rover System (ECARS), a cutting-edge 4x4 multi-terrain unmanned ground vehicle (UGV), developed by Pune's Kalyani Strategic Systems Ltd, a fully-owned subsidiary of Bharat Forge, was unveiled by Defence Minister Rajnath Singh at the North Tech Symposium at IIT Jammu earlier this week.

The annual North Tech Symposium organised under the aegis of Headquarters Northern Command is a platform where the requirements of Indian Army in general are deliberated upon on a common platform with the industry and the academia.

As per a press statement, Bharat Forge said that ECARS UGV is armed with an enhanced collision avoidance system and advanced mission planning capabilities, rendering it a dependable resource for a wide range of military situations. The speed of the system ranges between 16 and 20 km per hour, with a payload capacity of 350 kg and towing payload capacity of 500 kg.

A key feature of ECARS is its compatibility with various systems, including Remote Controlled Weapon Stations (RCWS), water jet machines and capability of transporting heavy materials. This makes ECARS a key tool for border surveillance and more.

Headline : Defence Minister Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Raksha Anirveda

Date : September 12, 2023

Journalist:

<https://raksha-anirveda.com/defence-minister-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

The North Tech Symposium September 12 witnessed a ground-breaking moment as the Minister of Defence, Rajnath Singh, unveiled the Enhanced Collaborative Autonomous Rover System (ECARS), a cutting-edge 4x4 multi-terrain unmanned ground vehicle (UGV). This event marked a significant milestone in the realm of autonomous military technology and national security.

ECARS, developed by Kalyani Strategic Systems Limited (KSSL), a fully-owned subsidiary of Bharat Forge, stands at the forefront of innovation in the field of autonomous military technology. Designed to perform a wide range of missions including surveillance, security, safety, and rescue operations, ECARS brings a new level of versatility to military operations.

The ECARS UGV is armed with an enhanced collision avoidance system and advanced mission planning capabilities, rendering it a dependable resource for a wide range of military situations. The speed ranges between 16 and 20 kilometres per hour, with a payload capacity of 350 Kg and a towing payload capacity of 500 Kg.

One of the key features of ECARS is its compatibility with various systems, including Remote Controlled Weapon Stations (RCWS), Water Jet machines, and the transportation of heavy materials across border and water channels. This adaptability makes ECARS an indispensable tool for border surveillance, strategic asset perimeter security, riot control operations, CBRN (Chemical, Biological, Radiological, and Nuclear) incidents, fire-fighting, chemical spraying, and meeting various payload requirements.

Commenting on the remarkable achievement Amit Kalyani, Joint Managing Director, Bharat Forge Limited said, "ECARS represents a pivotal moment in military technology. It's a versatile, adaptable unmanned ground vehicle that is amphibious and has all terrain capabilities to significantly enhance our national security. ECARS' advanced capabilities make it a valuable asset in various military operations, from surveillance to security, and it demonstrates KSSL's commitment to pushing the boundaries of defence technology."

The unveiling of ECARS by the Minister of Defence at the North Tech Symposium marks a significant moment in India's journey towards enhancing its defence capabilities through innovation and cutting-edge technology. The development of ECARS showcases the commitment of Bharat Forge pushing boundaries of technological excellence in support of national security.

Headline : Defence Minister Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Bharat Shakti

Date : September 12, 2023

Journalist:

<https://bharatshakti.in/defence-minister-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

The North Tech Symposium witnessed a ground-breaking moment on 12 September when the Minister of Defence, Rajnath Singh, unveiled the Enhanced Collaborative Autonomous Rover System (ECARS), a cutting-edge 4x4 multi-terrain unmanned ground vehicle (UGV). This event marked a significant milestone in the realm of autonomous military technology and national security.

ECARS, developed by Kalyani Strategic Systems Ltd, a fully-owned subsidiary of Bharat Forge, stands at the forefront of innovation in the field of autonomous military technology. Designed to perform a wide range of missions including surveillance, security, safety, and rescue operations, ECARS brings a new level of versatility to military operations.

The ECARS UGV is armed with an enhanced collision avoidance system and advanced mission planning capabilities, rendering it a dependable resource for a wide range of military situations. The speed ranges between 16 and 20 kilometres per hour, with a payload capacity of 350 Kg and a towing payload capacity of 500 Kg.

One of the key features of ECARS is its compatibility with various systems, including Remote Controlled Weapon Stations (RCWS), Water Jet machines, and the transportation of heavy materials across border and water channels. This adaptability makes ECARS a tool for border surveillance, strategic asset perimeter security, riot control operations, CBRN (Chemical, Biological, Radiological, and Nuclear) incidents, fire-fighting, chemical spraying, and meeting various payload requirements.

Commenting on the remarkable achievement Mr. Amit Kalyani, Joint Managing Director, Bharat Forge Limited said, "ECARS represents a pivotal moment in military technology. It's a versatile, adaptable unmanned ground vehicle that is amphibious and has all terrain capabilities to significantly enhance our national security. ECARS' advanced capabilities make it a valuable asset in various military operations, from surveillance to security, and it demonstrates KSSL's commitment to pushing the boundaries of defence technology."

Headline : Defence Minister Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Bharat Shakti

Date : September 12, 2023

Journalist:

<https://www.indiastrategic.in/defence-minister-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

Jammu, India. The North Tech Symposium witnessed a ground-breaking moment on September 12, as the Honourable Minister of Defence, Mr. Rajnath Singh, unveiled the Enhanced Collaborative Autonomous Rover System (ECARS), a cutting-edge 4x4 multi-terrain unmanned ground vehicle (UGV). This event marked a significant milestone in the realm of autonomous military technology and national security.

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The unveiling of ECARS by the Minister of Defence at the North Tech Symposium marks a significant moment in India's journey towards enhancing its defence capabilities through innovation and cutting-edge technology. The development of ECARS showcases the commitment of Bharat Forge pushing boundaries of technological excellence in support of national security.

Headline : Defence Minister Unveils Bharat Forge's UCAV

Domain : Indian Defence Industries

Date : September 12, 2023

Journalist:

<https://indiandefenceindustries.in/index.php/rajnath-unveils-bharat-forge-ucav>

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Headline : Defence Minister Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Indian Defence Research Wing

Date : September 12, 2023

Journalist:

<https://idrw.org/defence-minister-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

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Headline : Defence Minister Shri. Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Aviation Defence Universe

Date : September 12, 2023

Journalist:

<https://www.aviation-defence-universe.com/defence-minister-shri-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

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Headline : Defence Minister Shri. Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : APN

Date : September 12, 2023

Journalist:

<https://www.apnnews.com/defence-minister-shri-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

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Headline : Bharat Forge's KSSL Unveils ECARS a Cutting-Edge Autonomous Military Vehicle at North Tech Symposium

Domain : NRI News 24x7

Date : September 12, 2023

Journalist:

<https://nrinews24x7.com/bharat-forges-kssl-unveils-ecars-a-cutting-edge-autonomous-military-vehicle-at-north-tech-symposium/>

Kalyani Strategic Systems Ltd (KSSL), a fully-owned subsidiary of Bharat Forge, has unveiled the Enhanced Collaborative Autonomous Rover System (ECARS), a 4x4 multi-terrain unmanned ground vehicle (UGV) at the North Tech Symposium. The Honourable Minister of Defence, Shri. Rajnath Singh, unveiled the vehicle, marking a significant milestone in the realm of autonomous military technology and national security.

ECARS is designed to perform a wide range of missions, including surveillance, security, safety, and rescue operations, bringing a new level of versatility to military operations. The UGV is armed with an enhanced collision avoidance system and advanced mission planning capabilities, making it a dependable resource for a wide range of military situations. The speed ranges between 16 and 20 kilometers per hour, with a payload capacity of 350 Kg and a towing payload capacity of 500 Kg.

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Kalyani Strategic Systems Ltd. (KSSL) is a 100% subsidiary of Bharat Forge Limited, founded as a key company to drive defense business initiatives. The Group's legacy and experience in design, engineering, metallurgy, and manufacturing expertise spanning over five decades have played a key role in the Group emerging as one of the leading defense players in India with established capabilities of entities within its fold across key locations in India.

Bharat Forge Limited (BFL) is the flagship company of the USD 3 billion Kalyani Group and a global provider of high-performance, innovative, safety & critical components and solutions to various sectors including Automotive, Railways, Defence, Construction and mining, Aerospace, Marine and Oil & Gas. BFL today has the largest repository of metallurgical knowledge in the region and offers full-service supply capability to its geographically dispersed marquee customers from concept to product design, engineering, manufacturing, testing, and validation. At the cusp of a breakout growth & transformation into an engineering conglomerate through its aggressive foray into capital goods and infrastructure sectors, BFL is committed to proactively expediting India's transformation into a global economic powerhouse.

Headline : Defence Minister Shri. Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Passionate in Marketing

Date : September 12, 2023

Journalist:

<https://www.passionateinmarketing.com/defence-minister-shri-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

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Headline : Defence Minister Shri. Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Mix Point

Date : September 12, 2023

Journalist:

<https://mixpoint.in/press-release/2023/09/defence-minister-shri-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

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Headline : Defence Minister Shri. Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Business Macro

Date : September 12, 2023

Journalist:

<https://businessmicro.in/business/defence-minister-shri-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

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Headline : Defence Minister Shri. Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Online News 9

Date : September 12, 2023

Journalist:

<https://onlinenews9.in/business/defence-minister-shri-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

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Headline : Defence Minister Shri. Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Biz RapidX

Date : September 12, 2023

Journalist:

<https://bizrapidx.com/business/defence-minister-shri-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

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Headline : Defence Minister Shri. Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Konexionetwork

Date : September 12, 2023

Journalist:

<https://konexionetwork.com/NewsDetails.aspx?newsid=27f97ed2-3e4f-4c7c-87df-e9bd86776c75>

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Domain : NewsNew

Date : September 12, 2023

Journalist:

<https://www.newznew.com/defence-minister-shri-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposiu/>

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Headline : Defence Minister Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Global News

Date : September 12, 2023

Journalist:

<https://www.globalnews.net.in/post/defence-minister-shri-rajnath-singh-unveils-kssl-s-ecars-at-north-tech-symposium>

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Headline : Defence Minister Shri. Rajnath Singh
Unveils KSSL's ECARS at North Tech Symposium

Domain : Sakth Khabar

Date : September 12, 2023

Journalist:

<https://sakthkhabar.wordpress.com/2023/09/13/defence-minister-shri-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

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Headline : Bharat Forge develops ECARS for India's defence ops

Domain : Sunshine Pune

Date : September 12, 2023

Journalist:

<http://www.sunshinepune.in/bharat-forge-develops-ecars-for-indias-defence-ops/>

Designed to perform a wide range of missions including surveillance, security, safety, and rescue operations, ECARS brings a new level of versatility to military operations

Defence Minister Rajnath Singh unveiled on Tuesday the Enhanced Collaborative Autonomous Rover System (ECARS) developed by Kalyani Strategic Systems Ltd(KSSL) in the North Tech Symposium at Jammu. ECARS is a cutting-edge 4x4 multi-terrain unmanned ground vehicle (UGV) which will play a major role in the realm of autonomous military technology and national security. KSSL, a fully-owned subsidiary of Bharat Forge, stands at the forefront of innovation in the field of autonomous military technology. Designed to perform a wide range of missions including surveillance, security, safety, and rescue operations, ECARS brings a new level of versatility to military operations. The ECARS UGV is armed with an enhanced collision avoidance system and advanced mission planning capabilities, rendering it a dependable resource for a wide range of military situations. The speed ranges between 16 and 20 kilometres per hour, with a payload capacity of 350 Kg and a towing payload capacity of 500 Kg.

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Headline : संरक्षण मंत्री राजनाथ सिंह यांच्या हस्ते
नॉर्थ टेक सिम्पोसियम मध्ये केएसएसएलच्या
ईसीएआरएसचे अनावरण

Domain : Maharashtra Lokmanch

Date : September 12, 2023

Journalist:

<https://maharashtralokmanch.com/2023/09/12/kssls-ecars-unveiled-at-north-tech-symposium-by-defense-minister-rajnath-singh/>

नॉर्थ टेक सिम्पोसियममध्ये देशाचे माननीय संरक्षण मंत्री राजनाथ सिंह यांच्या हस्ते अत्याधुनिक ४x४ मल्टीटेरेन अनमॅन्ड ग्राउंड व्हेईकल, एन्हान्सड कोलॅबोरेटीव्ह ऑटोनॉमस रोव्हर सिस्टिम (ईसीएआरएस)चे अनावरण केले. स्वायत्त लष्करी तंत्रज्ञान आणि राष्ट्रीय सुरक्षा क्षेत्रात हा एक महत्त्वाचा टप्पा आहे.

एन्हान्सड कोलॅबोरेटीव्ह ऑटोनॉमस रोव्हर सिस्टिम (ईसीएआरएस) ला भारत फोर्जच्या पूर्ण मालकीची उपकंपनी असलेल्या कल्याणी स्ट्रॅटेजिक सिस्टीम्स लिमिटेडने विकसित केले असून, ते स्वायत्त लष्करी तंत्रज्ञान क्षेत्रातील सर्वात आघाडीचे अभिनव तंत्रज्ञान आहे. पाळत ठेवणे, सुरक्षा आणि बचाव कार्यांसह अनेक वेगवेगळ्या मोहिमा पार पाडण्यासाठी डिझाइन केलेले, ईसीएआरएस लष्करी ऑपरेशन्समध्ये नव्या प्रकारचे अष्टपैलुत्व आणेल.

ईसीएआरएस हे टक्कर टाळण्याची प्रगत प्रणाली आणि आधुनिक मिशन नियोजन क्षमतांनी सुसज्ज आहे, त्यामुळे अनेक प्रकारच्या लष्करी परिस्थितींमध्ये ते एक विश्वासाई संसाधन ठरू शकते. याचा वेग प्रति तास १६ ते २० किमी दरम्यान असून, पेलोड क्षमता ३५० किलो व टोईंग पेलोड क्षमता ५०० केली आहे.

रिमोट कन्ट्रोल्ड वेपन स्टेशन्स (आरसीडब्ल्यूएस), वॉटर जेट मशिन्स यासारख्या वेगवेगळ्या प्रणाली तसेच सीमा व जलवाहिन्या ओलांडून अवजड सामग्रीची वाहतूक यासाठी ईसीएआरएस वापरले जाऊ शकते हे याचे महत्त्वाचे वैशिष्ट्य आहे. त्यामुळे सीमांवर पाळत ठेवणे, स्ट्रॅटेजिक ऍसेट पेरिमीटर सिक्युरिटी, दंगल नियंत्रण, सीबीआरएन (केमिकल, बायोलॉजिकल, रेडिओलॉजिकल आणि न्यूक्लियर) घटना, आग विझवणे, रसायन फवारणी आणि विविध पेलोड आवश्यकता पूर्ण करण्यासाठी हे वापरले जाऊ शकते.

भारत फोर्ज लिमिटेडचे संयुक्त व्यवस्थापकीय संचालक

अमित कल्याणी यांनी या उल्लेखनीय कामगिरीबाबत सांगितले की,

“ईसीएआरएस हा लष्करी तंत्रज्ञानातील एक महत्त्वाचा टप्पा आहे. हे एक अष्टपैलू वेगवेगळ्या परिस्थितींशी जुळवून घेणारे मानवरहित, जमिनीवरचे वाहन आहे, ज्यामध्ये सर्व प्रकारच्या भूप्रदेशांमध्ये काम करण्याच्या क्षमता असून त्यामुळे आपल्या राष्ट्रीय सुरक्षेत लक्षणीय वाढ होईल. ईसीएआरएसमध्ये प्रगत क्षमता असल्यामुळे ते पाळत ठेवण्यापासून सुरक्षेपर्यंतच्या विविध लष्करी ऑपरेशन्समध्ये वापरले जाऊ शकते. ईसीएआरएस संरक्षण तंत्रज्ञानाची क्षितिजे विस्तारण्याची केएसएसएलची वचनबद्धता दर्शवते.”

नॉर्थ टेक सिम्पोसियममध्ये माननीय संरक्षण मंत्र्यांच्या हस्ते ईसीएआरएसचे अनावरण हा भारताच्या संरक्षण क्षमतांमध्ये नावीन्य आणि अत्याधुनिक तंत्रज्ञानाद्वारे वाढ करण्याच्या वाटचालीतील एक महत्त्वपूर्ण टप्पा आहे. राष्ट्रीय सुरक्षेसाठी तांत्रिक उत्कृष्टतेच्या सीमा पार करण्याची भारत फोर्जची वचनबद्धता ईसीएआरएसमधून दिसून येते.

Headline : Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium

Domain : Chandigarh City News

Date : September 15, 2023

Journalist:

<https://www.chandigarhcitynews.com/defence-minister-shri-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

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Headline : Defence Minister Shri. Rajnath Singh Unveils KSSL's ECARS at North Tech Symposium

Domain : FM Live

Date : September 20, 2023

Journalist:

<https://www.fmlive.in/defence-minister-shri-rajnath-singh-unveils-kssls-ecars-at-north-tech-symposium/>

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