

# Scientists spot new, huge energy waves coming out of Sun

INDEPENDENT.CO.UK  
 Scientists have seen huge, extra-powerful particles shooting out of the sun, in what they have described as a brand new solar phenomenon. Researchers have for the first time ever spotted what they describe as "large-scale" waves being thrown out of the sun, together with energetic particles that seem to be thrown out by the waves. The scientists have long known that such particle emissions were happening — but couldn't explain how they were making their way into space. The sun is continually throwing out huge, violent bursts of emissions into space. Some of those are well-known, such as coronal mass ejections, but the new waves are of a

new and are little understood. "The new phenomenon is like a kind of explosion," said Radoslav Bucik, who led the research team. Those waves are likely bringing with them particle flows that are much more rich in a light form of helium, helium-3, than normal. "We believe that the blast waves accelerate the helium-3", Davina Innes, from the Max Planck Institute for Solar System Research (MPS), said in a statement. "Our analysis shows that typical characteristics of the waves, such as their energy, influence the properties of the particles", colleague Lijia Guo, who also stationed at the MPS, said. Helium-3 is a light, non-radioactive isotope of helium. It's very useful

and rare on Earth, but there is lots of it in space, including on the moon. The researchers think that the events might happen fairly often. But because of the arrangement of the sun and the Earth, scientists aren't likely to get another look for a decade. The waves were found in data that was collected in early 2010. The data came from STEREO A, one of two space probes launched in 2006 that circle the sun in opposite directions, and a Nasa spacecraft called Advanced Composition Explorer, which watches the sun from near Earth. The research, titled 'Observations Of Euv Waves In 3he-Rich Solar Energetic Particle Events', is published in The Astrophysical Journal this month.

# Harassed for no crime

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 in human trafficking. The four members are Arifur Raihan, Hasibur Rahman, Zakia Sultana and Firoz Alam Khan. They were released from the Dhaka Central Jail yesterday afternoon, said Shakil, a member of the NGO. They had been running a shelter home renting a flat in the capital's Rampura where they provided a dozen street children with accommodation and food. Monir, uncle of a 14-year-old boy named Mubarak who lived in the home, filed a case with Rampura Police Station accusing four people under the Prevention and Suppression of Human Trafficking Act 2012. On September 12, police arrested the four and claimed to have rescued 10 children from the flat. On September 13, one of the children was handed over to his family while the rest were sent to the Juvenile Development Centre in Gazipur. However, the rescued children,

aged between nine and 14, told media that they -- provided with care, food and security -- were happy in the shelter home. They said no one ever tortured them. Only Mubarak had complained that he was kept there for a day or two against his will. The case was filed following his complaint. However, he too stressed that neither he nor the others were ever tortured or treated badly. One of the founders of the NGO said they persuaded Mubarak to stay on in the home so that he could finish an educational course. Talking to this correspondent at that time, the children said they had been staying at the house for at least six months. Following the arrests, there was widespread protest in social media from different tiers of the society. A Facebook post by a journalist on October 14 says Arif is a Computer Science and Engineering

graduate. Another arrestee Hasib, who obtained A+ both in the SSC and HSC exams, could not attend his university admission tests due to the arrest. Zakia and Firoz too were very compassionate towards street children. The four, along with several others, established a school called Mojar School for homeless children. Arifur said both the NGO and the school are aimed at helping street children stand on their own feet. These are selfless initiatives run by their own incomes. He said most of the NGO members contribute a good part of their incomes to the NGO fund. "Police did not listen to us, nor did media. But we were confident that we'd be released as we did not commit any offence. We rather wanted to improve the lives of some street children," he said. The NGO got government registration in January 2014.

# 2 of 4 victims know

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 Gulshan Police Station Officer-in-Charge Sirajul Islam even showed this correspondent a copy of the agreement at his office on Sunday. However, Lisa Dibra, an indigenous woman, one of the four injured, expressed surprised when she was told about the agreement. "There is no question of signing any such thing. Parts of my body are still aching... I suffered tooth injuries as I fell on the pavement," she said. When this correspondent told her that her name was on the agreement, she said someone else had put her name there. On October 12, a sport utility vehicle (SUV) driven by Fareez Rahman, 16, nephew of a former Awami League lawmaker, was racing with another car on a somewhat waterlogged Gulshan street, said a policeman who was close by at the time.

tal," said the 24-year-old employee of a private firm. Lisa said the money charged by the hospital that day was paid by the driver's family. "The perpetrator should pay for my treatment, but that does not mean I will not seek justice." Lisa's husband told The Daily Star that he too did not sign any agreement. On October 14, Shapla Begum, wife of another injured Rafiqul Islam who is still under treatment at the United Hospital, said she had not signed any agreement with Fareez's family. Asked, OC Sirajul yesterday said, "The agreement was sent to the police station by the vehicle owner's family. I don't know who did and didn't sign it." Policemen who met Fareez at the crash scene said he is the nephew of former Awami League lawmaker Dr HBM Iqbal. Soon after the crash, pictures of cops taking Fareez to Gulshan Police Station surfaced on the social media. Police later freed him. One of Fareez's friends gave this newspaper the pictures that Fareez took of himself from his mobile phone while driving. Meanwhile, lawyers Aneek R Haque, Farid Uddin, Ali Bashar and

Jyotirmoy Barua yesterday filed a public interest litigation with the High Court seeking trail of Fareez and adequate compensation for the victims. Two dead as bomb hits army vehicle in restive Thai south AFP, Bangkok A large bomb buried under a road killed two Thai army rangers and wounded five others yesterday in the kingdom's restive, Muslim-majority deep south. The explosion was large enough to knock the armoured vehicle carrying the rangers off the road in Saiburi district of Pattani province, a hotspot in an 11-year insurgency that has claimed thousands of lives. "The bomb was detonated by mobile phone as their vehicle passed by on Monday morning," Colonel Panya Karawan, commander of Saiburi police, told AFP. Shortly afterwards security forces narrowly escaped a second attack, when police were called to the scene of a burning motorcycle a few kilometres (miles) further up the road.

# Park or landfill?

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 collapsed due to inundation in recent times, they claimed. A staff of the park, seeking anonymity, said the number of visitors had significantly dropped. He, however, could not say how many visitors come to the place daily since there is no ticketing system and visitors can visit it free. Hedayat Ullah, caretaker of the park, claimed that they have a good number of visitors on holidays. Mohammad Alam, a resident of Katalganj, said there used to be a lot of visitors to the park before, but the number has declined sharply. Some 30 visitors were seen at the park during a visit there on Saturday afternoon.

One visitor, Parvin Akter, said the park could be turned into an attractive place for city dwellers if the authorities paid attention to it. "Except for a few benches, there is no playground equipment like swings or merry-go-rounds for children," she said, adding that the walkways inside the park had also become muddy. Contacted, Kazi Mohammad Shafiul Alam, chief executive officer of CCC, said they were filling up the place with mud as it is lower than the adjoining areas. Boundary walls will also be built once the levelling is done, he added. Construction of two swimming pools and a gymnasium on one side of the park is almost finished, he said, adding that the park would

also be developed, but it would take some time. 2 'JMB leaders' FROM PAGE 16 prayer for 10-day fresh remand. The court granted five days for each of them. On October 5, criminals slew Khijir entering his Badda residence. Around a week later, the duo - Tariqul Islam Tareque alias Mithu, a JMB organiser, was arrested from Tangail and Alek Bepari from Mirpur. Police petitioned for fresh remand as they could not obtain any information about rest of the killers, investigators said.

# Migrants

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 Police expected thousands to join the "Patriotic Europeans Against the Islamisation of the Occident" demonstration in Dresden in the former communist East, as well as a large antifascist counter-protest. The movement had all but vanished after pictures surfaced in January showing its co-founder Lutz Bachmann sporting a Hitler moustache, but it has made a comeback since September, when Merkel opened the doors to a surge of asylum seekers. Angry protesters have accused her of "treason" and last week carried a mock gallows with Merkel's name on it. The chancellor yesterday again urged people to "stay away from those with hate in their hearts," her spokesman said. Merkel, hoping for Turkey's help in slowing the migrant influx, held talks with President Recep Tayyip Erdogan in Istanbul on Sunday. The EU wants Turkey to tighten border security and house more refugees in return for billions in financial help, visa liberalisation for Turkish citizens and an acceleration of its stuttering drive for EU membership. But Turkish Prime Minister Ahmet Davutoglu said yesterday his country would not host migrants permanently to appease the EU. "We cannot accept an understanding like 'give us the money and they stay in Turkey'," he said. "Turkey is not a concentration camp." "As for fresh resources, we're talking about a 3 billion euro amount in the first stage. But we don't want to fixate on this because the requirements may go up, and the assessment for this would need to be done annually," Davutoglu said. Merkel on Sunday offered Turkey the prospect of support for faster progress on its bid to join the European Union in return for cooperation in stemming the flow of migrants and taking back those rejected by Europe.

# Durga Puja

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 the invocation and supplication of devotees through the Bodhon rituals during the Mahashashthi, the formal start of the puja. Like previous years, Bangladesh Puja Udjapan Parishad distributed cloths among poor children last evening. Today, at the break of dawn, devotees will perform the Mahasaptami puja. Mahasaptami Puja begins with the ritual of mahasnan. To perform mahasnan, a mirror is placed on a platter in such a way that the reflection of the goddess Durga is seen in the mirror. It will be concluded with Devi bhog, gastronomic delight served to devotees, and Aarti, a special prayer offered by the priest. Joint Secretary of Bangladesh Puja Udjapan Parishad Nirmal Chatterjee said Mahasaptami puja would end by 10:00am. The Prime Minister is scheduled to visit the mandaps at Dhakeshwari and R K Mission today to exchange greetings with hindu devotees, he said. This year more than 29,000 mandaps have been set up across the country, including 225 in Dhaka alone, to celebrate the occasion. The spectacular mandaps with colourful idols of the goddess gave a festive look to cities, urban centres and even rural villages of Bangladesh. The origin of Durga Puja can be traced back to the 15th century. With the ascent of Mughals, Durga Puja became more popular. Grand celebrations, gala feasts and huge fanfare became part of the festival. According to Hindu mythology, goddess Durga appeared in the midst of common people following the prayer of king Kangsha. Marking the occasion, the first Durga worship was arranged at Taherpur in Rajshahi in the Bengali month of Aswin in 1480 by Kangshanarayan. It also has mythological precedence. The goddess's elderly son Ram had offered the puja at different times to seek blessing from the divinity to safeguard the people from the misrule of Lanka Raj Ravana.

# Photo that may end

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 Theories that the photo was a fake have been used to cast doubt on the evidence pointing to Oswald as the sole assassin of the president on November 22, 1963. Oswald, killed before he could stand trial, claimed the photo, in which he brandished a rifle in one hand and Marxist newspapers in the other, had been faked when shown it by Dallas Police. Its veracity was examined by The Warren Commission and the House Select Committee on Assassinations. Now researchers at Dartmouth College, New Hampshire, have used a new digital image forensics technique and a 3-D model of Oswald, for the study, published in the Journal of Digital Forensics. "Our detailed analysis of Oswald's pose, the lighting and shadows and the rifle in his hands refutes the argument of photo tampering," said senior author Hany Farid, a professor of computer science and a pioneering researcher in digital forensics whose team develops mathematical and computational techniques to detect tampering in photos, videos, audios and documents. Claims that the picture was a composite have centred on the lighting and shadows in the photo, said to be inconsistent. Oswald's facial features are inconsistent with other photos of him and the size of the rifle is inconsistent with the known length of that type of rifle, it has been argued. Oswald's pose is physically implausible, as it appears as if he is standing off balance, it is claimed. Studies by Farid in 2009 and 2010 rejected the claim that the lighting and shadows are inconsistent, but did not address claims that Oswald's pose is physically implausible. In the new study, Farid and his team conducted a 3-D stability analysis to determine if this claim was warranted. Farid's team built a physiologically plausible 3D model of Oswald and posed this model to match his appearance in the backyard photo. By adding the appropriate mass to each part of the 3D model, they were able to perform a balance analysis on the 3-D model.

This analysis revealed that although Oswald appears off-balance, his pose is stable. The analysis also demonstrated that the lighting and shadows are physically plausible and the length of the rifle is consistent with the length of the rifle used to kill the president. Farid said: "Our analysis refutes purported evidence of manipulation in the Oswald photo, but more generally we believe that the type of detailed 3-D modelling performed here can be a powerful forensic tool in reasoning about the physical plausibility of an image. "With a simple adjustment to the height and weight, the 3-D human model that we created can be used to forensically analyse the pose, stability and shadows in any image of people." The Warren Commission and the House Select Committee on Assassinations had concluded that claims of photo tampering were unwarranted. Dallas police released photographs of Lee Oswald holding the supposed murder weapon, taken by his wife Marina, the day after the murder.

# Bus passengers

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 fare hike has triggered an anarchic situation across the country. Sunday's bus strike is an example of that anarchy. The bus owners and their employees are so powerful that they even attacked the mobile court. The government is working to secure the interest of the transport owners, overlooking the passengers' interest, added Maksud. Eminent economist Prof Anu Mohammad said transport owners, who have close relations with the government, were so powerful that they could do whatever they want and realise fares as much as they want. Blaming the gas price hike as the main cause of the transport fare hike, Prof Anu Mohammad said the government has hiked gas price irrationally. "We are thinking about taking legal action against the irrational gas price hike, which is the main cause of the recent anarchy in public transportation sector," said Golam Rahman, president of Consumer Association of Bangladesh (CAB). Among the complainants, Hena Begum of Keraniganj said, transport workers were taking Tk 50, instead of Tk 40, bus fare from Postagola to Airport. She said women and elderly people were frequently stopped from boarding buses even though there supposed to be reserved seats for women. Passenger Khurshida Pathan of Jurain said her bus fare went up to Tk 13 from Tk 10 (from Postagola to Sadarghat) and the bus helpers take the same amount from students too.

# Govt steps

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 invite our nationals to live in Bangladesh. Let's go on with our normal life." About the investigation into the killing of Italian citizen, he said his understanding is that some progress has been made and more time is needed to get the full picture on the probe. He hoped that the right culprits would be taken to custody. About the suspected IS link to the murder, Palma said, "Your government says it was posted from Bangladesh and there could be some locals or individuals using IS link."



## Sylhet City Corporation

Nagar Bhaban, Sylhet  
 Website: www.sylhetcitycorporationbd.com

### Invitation for Tender (IFT)

Tender Notice No: 09/2015-16 (MGSP-05)

1	Ministry/Division	Ministry of the Local Government, Rural Development & Co-operatives.
2	Agency	Sylhet City Corporation.
3	Procuring entity code	N/A.
4	Procuring entity district	Sylhet.
5	Invitation for	Procurement of Works.
6	Invitation reference No.	Memo No: SCC/Engr/Elec-4/566/15/2463
7	Date	18/10/15.
<b>KEY INFORMATION</b>		
8	Procurement method	Open Tendering Method (OTM).
<b>FUNDING INFORMATION</b>		
9	Budget and source of funds	The source of public funds is Government of Bangladesh (GOB) and International Development Association (IDA).
10	Development partners	World Bank (IDA).
11	Project/programme name	Municipal Governance & Services Project (MGSP).
12	Package details	Package No. Package name Price of tender document (BDT) Tender security (BDT) Work Completion Period (Days)
	01	MGSP/SCC-O&M/2015-16/01 Maintenance of Street Light of Shahjalal Bridge 700.00 35,000.00 30 days
13	Tender last selling date, closing & opening date and time	Last selling date Closing date & time Opening date and time
		17/11/2015 at 18/11/2015 at 18/11/2015 at bank our 1:00pm 1:30pm
14	Name & address of the office for selling tender documents, receiving & opening tender	Selling Office of the Secretary, Room No-207, Nagar Bhaban, Sylhet City Corporation. a) Nagar Bhaban, Sylhet City Corporation. b) Divisional Commissioner, Sylhet Division, Sylhet. c) Deputy Commissioner, Sylhet. d) Project Director, MGSP, Level-6, LGED Bhaban, LGED, Agargaon, Dhaka.
15	Place/date/time of pre-tender meeting	N/A.
<b>INFORMATION FOR TENDERER</b>		
16	Eligibility of tenderer	As described in the respective tender document.
17	Brief description of works	Maintenance of Street Light.
18	Tender shall be valid for a period of 120 days after tender opening and must be accompanied with tender security specified above. The procuring entity reserves the right to accept or reject any/all tender(s) without assigning any reason whatsoever. Interested tenderer may obtain further information from the undersigned and purchase the tender document in Cash/Bank Draft the places mentioned above. The tenderer or their authorized representatives are allowed to attend the opening of the tender.	

**Chief Engineer (In-Charge)**  
 Sylhet City Corporation

GD-3347



## কোল পাওয়ার জেনারেশন কোম্পানী বাংলাদেশ লিমিটেড

### Coal Power Generation Company Bangladesh Limited (CPGCBL)

(An Enterprise of Government of Peoples Republic of Bangladesh)

# CORRIGENDUM

Ref.: CPGCBL Memo no. 27.32.0000.002.031.012.14.951  
 Dated: 31.08.2015

As per request of interested bidders, the Bid Submission date of Invitation for Bids for Procurement of Plant Design, Supply and Installation of 132/33 KV Matarbari Sub-station on Turnkey Basis. (Package 4.2: Rural Electrification Component of Matarbari Ultra Super Critical Coal-Fired Power Project, JICA Loan Agreement No. BD-P76) is extended up to 12th November 2015 (11.00 AM). All the other terms and conditions of above bidding documents shall remain unchanged.

**Md. Mizanur Rahman**  
Company Secretary

## Gone in moments

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 crowded Tanti Bazar area where security has been beefed up for Durga Puja. Several Puja Mandaps have been set up in the area, and law enforcers were only yards away at the time of the incident, said locals. Asked, Abul Hassan, officer-in-charge of Kotwali Police Station, said he and several other policemen rushed to the spot hearing the gunshot. The muggers mingled with the crowd before anyone could realise what had actually happened, he said. The OC said they collected footage of the CCTV cameras installed at the bank branch and nearby markets. None was arrested as of 1:00am today. Partha was under treatment at the National Institute of Traumatology and Orthopaedic Rehabilitation (Nitor).