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Thermax absorption chiller manual model

design for delivering simultaneous heating water of up to 195°C AF AA. These chillers are custom built. Design is done based on the engine parameters and operating load. The tube metallurgy for Evaporator / Absorber / Condenser is DLP Copper E7 Cycle of Operation DUMP CONDENSER EXHAUST GAS OUT TO CHIMNEY HOT WATER GENERATOR LOW TEMP. Approximate compressed air requirement - for control valve - 0.4 nm³/hr (min), 0.8 nm³/hr (max), for on/off valve 0.2 nm³/hr (min), 0.4 nm³/hr (max). The concentrated absorbent becomes diluted. Auxiliary cooling water for dump condenser should be preferably taken from the engine lt water circuit. This means that if we heat the LiBr water solution, the water will vapourise but the LiBr will stay in the solution and become concentrated. Thermax has helped clients with Eco-friendly airconditioning and process cooling to reduce their carbon footprints. The absorbent, which has become concentrated in the LTG drains to the absorber through the Low Temperature Heat exchanger to begin a new absorbent cycle. The diluted absorbent (57.0%) collects in the bottom of the shell. Spanning over 90 countries, customers make use of Thermax's business-to-business solutions for heating, cooling, power and cogeneration plants; waste heat recovery units; systems for water & wastewater management and air pollution control; performance improving chemicals. In addition to this, an auxiliary condenser is provided in the generator circuit to protect the chiller in the event of minor exhaust gas leakage.

3. Our Prestigious Installations Santos Jaya Abadi, Indonesia Thermax supplied a 418 TR (1470 kW) exhaust gas driven absorption chillers to Santos Jaya Abadi in Indonesia. Maximum Heat Recovery from Exhaust Gas Direct connectivity of machine PLC panel with Third party monitoring systems like BAS (Building Automation System), DCS (Distributed Control System) or PLC (Programmable Logic Controller) can be provided via Modbus RTU on the RS485 network. Even when the temperature of the LiBr solution decreases, its water vapor support when LiBr dilutes his ability to absorb water vapor.

16. Critical processes, such as welding, are carried out with robots and CNC machines carry out precision processing activities.

10. The double -sequel insulation valves and the bolted pumps facilitate the maintenance of the canned motor pumps mounted on the machine without any loss of emptiness in the system. The solutions offered by Thermax differ in:

A) Reduction of operating costs

B) Reduction of the consumption of electricity

C) Reduction of greenhouse gase emissions, zero reduction potential of the thermax

Solutions Unique of heating and cooling are suitable for a wide range of industrial and commercial applications all over the world. Refrigerating steam condensators generator 3 generator of refrigerating steam condensators concentrated lithium solution refrigerant liquid water refrigerant (refrigerant) refrigerated water refrigerated source of the operating heat refrigerated water source of cooling water refrigerant water source. Diluted solution evaporator absorption pump This heat makes the solution releases the refrigerant absorbed in the form of steam. This CHPC project with its distributed energy center provides cooling and heating to the entire campus, also becoming the teaching and research platform of the energy distributed system for the campus. It is a particularly convenient provision for modernization / replacement works. Gravity Feed LiBr and Refrigerant Distribution Mechanism with a grape distribution mechanism without nozzle, without clogging, for stable and reliable operation for the whole life of the machine, the Chiller Thermax declining performance. The vaporized coolant from the diluted absorbent passes through the eliminators to the condenser. This solution is called a medium solution.

Cadbury, Nigeria Thermax supplied 660 TR (2317 kW) exhaust chillers for Cadbury (Mondelez International) in Nigeria. Provide a manual butterfly damper on the engine exhaust gas bypass line to balance the pressure drop in the machine and exhaust gas bypass line. It is then necessary to refocus it using a heat source. The cooling process goes through such steps as evaporation of the refrigerant in the evaporator, absorption of the refrigerant by the concentrated LiBr solution in the absorber, boiling of the dilute LiBr solution to generate refrigerant vapor in the generator, and condensation of the refrigerant vapor in the condenser. The absorber, which is concentrated in the HWC, is called an intermediate solution and is pumped from the Absorber 3 pump to the high temperature heat exchanger. Concentrated LiBr is

LiBr solution to generate refrigerant vapor in the generator, and condensation of the refrigerant vapor in the condenser. The absorber, which is concentrated in the HWG, is called an intermediate solution and is pumped from the Absorbent-2 pump to the high-temperature generator via the high-temperature heat exchanger. Concentrated LiBr is nebulised in the absorber. For machines running on diesel engine exhaust, the compressed air supply is required for the soot blower. This feature allows the facility manager or Thermax engineer to monitor performance remotely via the internet. Pump Health Monitoring The cooler's PLC continuously monitors the health status of boxed motor pumps and informs the user of any upcoming maintenance needs. Solution Heat Exchangers The absorber pump pumps the diluted absorber to the high temperature generator. Exhaust condenser The exhaust condenser consists of a shell and tube heat exchanger. Allowable Range for Circulating Water in Chilled water and cooling water (< 104°F) Items Units pH (25°C) Copper Cu:Ni (90:10) SS316L Titanium 6.8 - 8.5 6.8 - 8.5 6.8 - 8.5 TDS ppm < 600 < 20000 < 2500 4.00% Turbidity NTU < 10 < 10 < 10 < 10 M Alkalinity ppm < 100 < 100 < 100 ppm < 300 < 10000 < 200 < 25000 ppm < 300 < 300 relli hc eht sekam osla tub ycneiciffe & ytilibaler eht sevorpmi ylno ton sihT mpp + 4HN noI muinommA DN DN DN mpp - S noI edihpluS 5.0 < 5.0 < 5.0 < 5.0 < mpp eF norI latoT 002 < 002 < 002 < mpp ssendraH muiclaC 003 < 003 < 003 < 003 < mpp ssendraH latoT 05 < 05 < 05 < 05 < mpp aciliS 003 for for special applications involving sea water and brackish water. Fabrication processes are mechanised using specially Certifications Recognized by global standards designed fixtures. 20. Split evaporator design helps to reduce the pressure drop for refrigerant vapour travelling from evaporator to absorber. The exhaust generated by the four C65 Capstone micro turbines of 65 kW capacity each for generating power at this data centre was harnessed to be an input to trigger the exhaust driven absorption chiller-heater that provides chilled water at 14.4OC during summers & hot water at 60 OC during winters in order to maintain the ambient condition inside the data centre. Further, there is a large difference between vapour pressure of LiBr and water. Thermax absorption chillers cater to industrial-cooling, commercial air-conditioning as well as industrial and space heating needs. The low temp hot water is allowed to flow into the HWG tubes. From the trays, the refrigerant falls on the evaporator tubes. Leak Tight Exhaust Gas Dampers To ensure highest reliability of the system, exhaust gas 3 way diverter dampers with over 99.5% leak tightness are supplied along with the chiller. Contrary to conventional exhaust gas chillers, Thermax chiller can cool exhaust gas up to 266°F which increases the overall efficiency of the CHP system. Need for separate pump for spray eliminated, resulting in lower power consumption. Then both the dilute solutions mix at high temperature heat

160-1230 3382 3721 4110 4403 4767 5290 6675 7396 8252 9356 9356 11 959 12 999 13 835 15 042 220 268 295 301 309 366 436 160 167 177 185 197 201 206 159 165 171 183 195 195 198 48,55.1 10,7 68,7 73,9 79,4 97,0101,4119,0125,7145,5151,0167,6176,4193,7202,9 54,0 61,7 68,3 76,4 81,6 87,110,214,6136.7  
43,3169,8176,4194,0202,822,4232.4 166 24.3 217 265 270 276 335 394 28.2 34.3 31.1 38.3 41.5 42.3460 V (±10%), 60 Hz (±5%), 3 Phase Environmental conditions between 41 and 113°F All connections with water nozzles to meet ASME B16.5 Class 150 Maximum allowable pressure in the refrigerated water/cooling system = 114 psi (g) "These coolers are custom built, based on engine parameters and the operating load." Dimensions & Weights are indicative and are for indicative purposes only. Simultaneous heating, hot water tube metallurgy up to 195 °F for evaporator/absorber/capacitor DLP copper E2 Piping and instrumentation Guideline Gate Valve (Open) Gate Valve (Close) Globe Valve (Open) Globe Valve (Close) Non Return Valve Cock Valve (Open) Bellow/ Flexible Connection Sol Butterfly Valve Butterfly Valve (Open) Butterfly Valve (Close) Reversed Bucket Steam Trap Air Pressure Regulator Filter Temperature indicator Pneumatic meter flow indicator line customer Scope Thermax Scope NOTE: 1. CHPP, Thailand Combined Heat and Power Company Limited (CHPP) a wholly-owned subsidiary of PTT Public Company Limited, a wholly-owned of gas and energy constituted for execution the cogeneration project for a government complex in Bangkok. It then passes through the high temperature heat exchanger where it absorbs heat from the intermediate absorbent solution. Heat exchangers are used to heat the absorbent solution before it enters the high temperature generator and hot water generator, for regeneration. dilute absorbent run around the exhaust pipes and heats up. "A otnaipmial .aiomalas/ataregirfer auqca id ossulf li apmorretni is arrolauq ,anihccam al osrevartta

otnemadderffar id auqca id ossulf li eratserra rep icitamotua ivitisopsid itsiverp eresse with a welding training centre to refine the skills of the operators. The waste heat from an existing gas engine exhaust was recovered to service as a heat source for the steam absorption chiller which generates cooled water at 6°C which is used in cooling and air conditioning applications in the plant. PLC-Based Control Panel THERMAX Chillers come with advanced PLC-based Control Panel, intuitive 7-inch touchscreen operator interface and data logging system. During this dilution the "heat of the dilution" is generated. The minimum pressure gauge count in water circuits should be 0.1 bar. Basic principle The vapour absorption machine uses water as a refrigerant solution and lithium bromide (LIBR) as an absorbent. With integrated expertise in the energy environment and proven experience in global markets, Thermax is the preferred partner for companies in all industrial sectors in over 85 countries. The solution absorbs the vaporized refrigerant. The automatic shut-off valve of the cooling water is mandatory, please refer to the offer document for the scope. Thermax provides solutions to a wide range of industrial segments including pharmaceuticals, chemicals, fertilizers, steel, textiles, petrochemicals, food and beverages, commercial complexes, office buildings, educational institutions and airports, among others. The expansion tank should be provided for the closed-loop refrigerated water system. Cooling and Heating Solutions for Exhaust Absorption and Multi-Energy Cooling and Heating Solutions Sustainable Solutions in Energy and Environment Thermax is a \$750 million engineering major providing sustainable solutions in the areas of energy and environment. The water of circulated in the absorber tubes removes the heat of the dilution. The project consisted in generating electricity and refrigerated water systems for the government complex. If the same stack is used to download the combustion gas from more than a machine, provide automatic shutdown grimble on the machine combustion gas exit to avoid the back back taeh qnitalucric retaW resnednoC )tnaregifer( retaW noitulos rBiL detartnecnoC tnaregifeR 2 .91 .8 .WM 4.4 fo senigne noitsubmoc lanretni rehcabneI eerht morf retaw toh tekai dna tsuahxe qnisu dereggirt era )RT 0453 - yticapac evitalumuc( hcae yticapac RT

stcudorp sedulcni oiloftrop ssenissenissenisp ub sÃÄÂxamrehT ..stnemeriuquer gniloc rieht rof )s.on 3 x TRSU 016( RT 0381 fo srellihc nevird tsuahxe s ÃÄÂ apac noitcudorp eht ni esaercni eht htiW .sesaercni noitulos rBiL fo noitartnecnoc eht sA .enigne sag WM 7.3 a morf derevocer taeh eht gnisu gninoitidnoc-ria dna gniloc ssecorp ni desu si rellihc noitprosba sihT .GTH eht morf gnitixe noitulos noitulos muidem ht morf taeh sbrosba ti erehw regnahcx eht erutarepmet hgh eht hguorht depmup neht si ,noitulos etaidemretni sa derrefer ,noitulos detareneger ehT .enibrut sag WM 52.1 a morf tsuahxe no snur RT 6112 fo rellihc enO .tsud dna lio morf eerf si dna g.rab 0.5 ta elbaliava si stnemurtsni eht ot ppylus ria desserpmoc eht taht erusnE .sebut rebrosba eht no sllaf noitulos sihT .erehw anihC ,iahgnahS ni ytisrevinU hcet iahgnahS anihC ,ytisrevinU hcet iahgnahS .noitarepo ni elihw knat egarots eht otni rellihc eht morf sesag elbasnednoc-non sevomer ylsuounitnoc ,relooc egrup htiw metsys egrup ycneiciffe hgh dettif yrotcaF metsyS egruP enilnO devorpmI ytivitcennoC SCD/SAB .flesti slooc hsalf dna sliob retaw ,muucav hgh ta deniatniam nehW rotaropavE ssecorp noitprosba tnaregirfer deziruopaV rotaropavE muucaV retaw lihC retaw gnilooC lessev desolC Concentrate in the LTG (63.4%) discharges on the absorber to start a new absorbing cycle. Poor quality water may result in the resizing of pipes, corrosion, suffocation or failure of pipes. The exhaust gas from the DG set can be passed into the pipes. China Hua Dian Engineering Co. Ltd. Turbulents in smoke tubes improve the overall heat transfer coefficient, allowing more heat recovery from the exhaust and resulting in lower exhaust outlet temperature. This solution then enters the high temperature generator.  $Ci^2$  protects the tubes from the embraced hydrogen in the BIRB environment. The absorbed refrigerant boils from the solution.  $Ci^2$  increases the temperature of the absorbent solution. Refrigerators are used to provide hot and cold water for air conditioning. Each  $\text{A}^{\circ}$  is designed for 664 TR cooling and 4280 mbh heating. Our vision of being a globally respected high-performance organization that delivers sustainable energy and environmental solutions that we heat, cool, power, and clean Thermax, an engineering company that delivers sustainable energy

isrellihi noitprosba Owt otni yllauqe tsuahxe enubt el Gennis eht Elihw Enibrurt Hm 2.5 A GNISU detareeneg tcejorp rof yticirrcele eht sah osla xamrehT ,seirtnuoc 72 revo daerps krowten ecivres & selas lanoitanretni na htiW .)%16AAA $\phi$ ot(sesaercni noitartnecnoc noitulos ehT .regnahcxE taeH niarD eht hguorht gnissap retfa resnednoc eht otni swolf tnaregirfer desnednoc ehT .srojam ygolohcet labolg morf spu-eit htiw osla dna Tnempoleved & Hcraeser gniogno yb detroppus era Snoitarepo s'xamreht .dirg eht ot ot lellarap detcennoc era hcihw ekam stigne wk Fo and improve their performance and profits. E2 Exhaust Gas Operating Cycle Out to Chimney Economiser LTG Dumping Dumper Cooling Water Aux Cooling Water Aux Cooling Water Exhaust Gas in Tank Exhaust Screen Heat Exchanger SCHUCCE TOY Water Reliant Watering High Temperature Innature Elementa Blow already<sup>1</sup> for the solid purge cooler cooler pump gi $\bar{A}$ <sup>1</sup> for the low temperature water cooling heat flue water inlet water coolant cooling strong steam cooling solution intermediate solution dilute evaporator solution consists of a tube bundle, an outer shell, tray distribution and a refrigerant pan. Ci $\bar{A}$ <sup>2</sup> reduces the heat input required in the high temperature generator.  $\bar{A}$ <sup>2</sup> the general contractor for the project that takes care of all utilities. Both dilute solutions mix at the low temperature heat exchanger outlet and enter the hot water generator. Because of this absorption, the vacuum in the shell is maintained and ensures that heat is extracted from the cooled water. The vaporized coolant from the intermediate absorbent passes through the eliminators to the condenser. The 3500 TR absorption chillers for high capacity and high pressure as pioneers in absorption technology, we offer absorption refrigerators specially designed for high capacity, high COP, customized solutions to meet large industrial and commercial conditioning requirements. Special Tube Metallurgy Special pipe materials like Cupro-Nickel, stainless steel or titanium depending on quality water supply on site. Stainless Steel Plate Heat Exchangers All etnebrossa etnebrossa nu e enoizubirtsid id iossav i,)erotaropave'l noc enumoc( onretse oicsuq nu ,ibut id oicsaf nu ad otiuititsoc "  $\bar{A}$  erotibrossa'L erotibrossa arutarepmet atla da erotareneG .onretni erolac id orepuce ommissam e  $\bar{A}$  tlibadiffa eroilqim anu rep ,613 SS ertsaiap noc azneiciffe atla da artsaiap a

Decided by the user after having kept due consideration to pressure falls in the machine and the drain of exhaust gases. In addition, a greater difference in temperature is possible in refrigerated water for a tone of 187 A ° F. The maximum working pressure in the water heads is 8.0 bar (G). The refrigerators with steam and water circuits are designed for more high operational pressures such as 232 PSI (G) and 352.5 PSI (G). Low temperature generator and condenser, the low temperature generator and the beams of the capacitor tube are enclosed in a shell and are separated by an isolation plate. With the aim of creating an ecological structure, the University has built a "trigen" structure that generates heating, cooling and electricity for the entire campus and helps in the conservation of energy. The minimum cooling water input temperature is 10 à ° C. Low temperature generator and condensive the coolant steam that flows in the tubes of the generator at low temperature (LTG) warms the intermediate absorbent that flows out of the pipes and condensation9. The refrigerant vaporized by the high temperature generator flows on the side of the shell of the exhaust condenser. The company designs, builds and commissions of large boilers for the generation of steam and energy, electrical power plants keys in à € à € à € hand, industrial and municipal waste water treatment systems, waste recovery systems and projects of air pollution control. The other part of the liquid passes through the low temperature heat exchanger in which it absorbs heat from the absorbent concentrated by the low temperature generator. Automobile è 'è ' è ' à à € ™ BMW (Germany) Ducati (Italy) Volkswagen (Germany) Ford Motors (India) Honda (Thailand) Healthcare "Ha' è "" è |à € ™ OI 'Niguarda Hospital (Italy) Hospital Broobedale Hospital (USA) DM Hospital (India) Valldà ç âvelop "ç Herbron Hospital inorePâ |Ã )airegiN( yrewerB sseniuG' |Ã )aidnI( grebslraC â|Ã )ainamreG( iereuarB netilemraKâ |Ã amrahP )ASU( ortsevoC )aidnI ( seirtsudnI ecnaileR elisarB( sarborteP )KU( liO rassE )ASK( cibas' |Ã ' |Ã ' |Ã lacimehCorteP & yrenifeR seirewerB noitacudE latipsoH eerF layoR Aeâ' United Breweries (India) Aeâ' Fordham University (USA) Aeâ' the University of Central Florida (USA) Aeâ' University of Greece (Italy) Aeâ' Shanghai Tech University (CNA) Aeâ' Michigan State University (USA) Aeâ'

Aceasta este o lista de companii care au lucrat sau sunt implicate in proiectele de dezvoltare a infrastructurii din Romania. Acestea sunt doar cateva dintre cele mai mari si importante companii din Romania si din lume care au contribuit la dezvoltarea infrastructurii romane.

The discharge of an existing gas engine was recovered by serving as a heat source for the steam absorption refrigerator that generates refrigerated water at 2nd of chilled water which is used in milk cooling applications in the system. For this new system, Thermax has provided two absorption of discharge gas absorption of a total capacity of 2620 TR (9196 kW) which have been designed and the manufacturer to work directly on the gas gases and / or by combustion of natural gas. The size of the auxiliary electrova valve of the cooling water is DN 40. 12. The other part of the liquid passes through the low temperature heat exchanger where it absorbs the heat with a concentrated absorbent. The condensed coolant returns to the high temperature generator. The refrigerated water is supplied to 6 for the cooling and hot water at 60's ° C for heating. Special HTG Design for the maximum reliability isolation valves for canned engine pumps The HTG design has Libr from the bottom and out of the top that allows the uniform circulation of Libr and avoids the hot points. KW (a) 0.75 (1.8) 0.75 (1.8) 0.75 (1.8) 0.75 (1, 8) 0.75 (1.8) 0.75 (1.8) 0.7 Notes: AEâ 'Input/Refrigerated water exit = 54 / 44 °F aeâ 'entrance temperature / output water water = 85/94.1 uef ae special design available for the output temperature of the exhaust gases of 270 a ° F aeâ' The minimum exit temperature of the 'Refrigerated water is 32nd optional: reserve ignition with natural gas and diesel for full capacity aeâ' The minimum output temperature of the cooling water is 50 in ° F aeâ 'The environmental conditions The exhaust gas circuit can be designed between 41 and 113 worlds between 4 and 12 inches of 4 and 12 inches of AC E2 E4 E4 CT E2 E2 E5 CT E2 E2 E6 E6 CT E2 F2 Tac 2044 2044 93 5943 0323 9182 1062 5532 1012 0681 9661 7061 4941 1431 0121 4677 1786 7746 2475 1415 0574 6414 6283 464 1903 6372 4542 3632 8912 9771 8022 4591 2481 3361 2641

The system consists of an oven and a bundle of pipes for the direct combustion fuel, a bundle of separate pipes for the hot exhaust, an external tank and a series of eliminators. This steam is cooled in a separate

chamber to become liquid coolant.  $\text{Ca}^{2+}$  reduces the heat input required in the generators, thus increasing the cycle efficiency.  $\text{Ca}^{2+}$  also facilitates heat recovery from different engines using a single cooler. Global Service Support ④ Cooling Thermax has a wide network of Service Centers around the world to ensure a quick response to customers. Non-toxic corrosion inhibitor Non-precipitating, non-toxic molybdenum-based corrosion inhibitor of the next generation, more effective than conventional chromate-based inhibitors (cause of cancer, prohibited in several countries) and nitrate. When the heat is lost to the cooling water, the absorbent  $\text{Ca}^{2+}$  can absorb more  $\text{Ca}^{2+}$  cooling steam and is further diluted. Thermax offers solutions from  $-40^{\circ}\text{F}$  to  $356^{\circ}\text{F}$  using hot water from  $176^{\circ}\text{F}$  / steam or steam from 0 psi(g) onwards / combustion gases from engine and turbines from  $518^{\circ}\text{F}$  onwards and a variety gaseous and liquid fuel. Provisions shall be made to ensure that the temperature of the hot water entering the machine does not rise above the permitted limit ( $10^{\circ}\text{C}$  above the nominal temperature). Located near the Ukrainian border, where the availability "power supply" one of the main concerns. Lego had installed 3nos. The refrigerant vaporized by the high temperature generator flows into the LTG tubes. Hudson Yard, USA Thermax has supplied four multi-energy absorption heaters for the Hudson Yards Development Project spread over 28 acres across commercial, residential, retail, and restaurant spaces and a luxury hotel, in Manhattan, New York. A part of Before entering the low temperature heat exchanger, passes first through the drainage heat exchanger where he absorbs the heat from the coolant condensed by the low temperature generator (LTG). Ross Ross architecture Portal Real-time data and historical refrigerator data are collected and analyzed by Thermax experts, which allows the identification of a potential threat to the refrigerator and provides a solution to the problem in time to allow a continuous process without hindrance through a smooth functioning of the refrigerator. Cooling process water flows into the evaporator tubes. The cooling vapor condenses outside the condenser tubes and is collected at the bottom of the condenser. Solutions in the form of absorption chillers, heat pump, refrigerated gaskets, composite chillers, low pressure steam chillers and multi-

through a smooth functioning of the refrigerator. Cooling process water flows into the evaporator tubes. The cooling vapor condenses outside the condenser tubes and is collected at the bottom of the condenser. Solutions in the form of absorption chillers, heat pump, refrigerated gaskets, composite chillers, low pressure steam chillers and multi-energy chillers are used in over 100 applications and over 50 industrial segments for air conditioning, industrial cooling and heating. The diluted absorption ( $\Delta \text{E} = 57.0\%$ ) is collected in the lower part of the shell. Mathworks, USA The Mathworks, Inc. 15. Our prestigious Lego installations, starring the Lego group of Denmark, known for Lego brand "the fourth largest toy manufacturer in the world. Absorber solution exchanges heat. The absorber is made up of a bundle of tubes, an outer shell (common with the evaporator), distribution trays and an absorbent collecting cup. Ci $\ddot{\text{A}}$ <sup>2</sup> improves the absorption rate of LIBR, thus improving the capacity and efficiency. This is an ideal installation to show energy security for the low-carbon, clean, efficient and green campus. Here part of the coolant absorbed by the absorber bubbles from the dilution solution due to the heat acquired by the hot water generator. Local regulations must be strictly followed for the design of the fireplace; Emission of combustion gases, etc. Ross Intelligent Reports Annual Service Contracts Solution Analysis Annual review Installation Support Support Service Pro I Care Revision Preventive and Retrofit Services Scaplio on Services call for pro -processes is the remote monitoring system based on next generation. Expert opinion of security at more levels Ross Ross yb ayb yb yb yb-dnats apmop anu erinrof elibissop " ,epmop elled atammargorp enoiznetunam al eriugese elibissop " non iuc ni ehcritc inoizacilppa rep yb-dnats id epmop eL .erotaropave'lled ibut i osrevartta asuffid eneiv ehc auqca'llad enoizaropave id etneta erolac li eartse de arutarepmet assab a aropave etnaregirfer li enoisserp atseuq A enoisorroc id .Atilibaborp al ominim la -Asoc odnecudir ,enoizartnecnoc atla e arutarepmet atla id aenatlumis azneserp al erativE HCITSIRETTARAF TNIAF XAMREHT etnaregirfer led erolac id eroataibmacs ol rep ocini wolF wolF ngiseD wolF xamrehT rellihc ied acinu acitsirettaraC idats eud a enoizaropavE irottudorp i ittut ad atiugese erolac id

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