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Øði`¦^Á+FKÓæ&&@\_^} œÁ§ Á@ÁÙč å^ÁŒ^æÅ Øð \* ¦^Á+Q4Ő^} d^Á/^¦¦æð Á Á@ÁU¦[ 16 &40E^æ  $\emptyset$ ať ` |^Á+Í kÁÓ^• oÁ  $\vartheta$ ão Ćã dâ čať } ÁÇÚ[ 、 ^ | Á/l^} å ÁŠã / DÁ+[ | Á $\emptyset$  ÁÖÖ ØÁÔ` | ç^• Á, -ÁOE; { æ) ÁOE3 ] [ | d $\hat{H}$ ĚÁ Í Øðt`¦^Á GÁ/@Á⊳^æ^•ÁÜæ)\*^|æ) åÁÜ^•^¦ç^Áţ Á@ÁÚ|[ b/&óÆ/œ**Á⊞⊞⊞⊞⊞⊞⊞⊞⊞⊞⊞⊞**∰KF€ Øãt č¦∧ÁÎKÉsa) åÁ∿∧Á ãr@a Ár ¦åa) Á Øāt`¦^ÁÌkÁJà•^¦ç^åÁæ}åÁ∥`\*@a\*Á^æ¦Á?æåãA<del>ddadada</del>G€ Øāt`¦^ÁJKQE&@[|[\*38ækû)ā?•Á ã@AÚ¦[b/8c/QE^æA Øāt`¦^Á €kÆā•Óa^}cāð å ÁJã^Á, ã@Æ&@[ || \* 38ækÄJ^{ æāj•ÁCJã^ÁFDÂHHHHHHHHHHHHHHHHHHH Øði č ¦^Á (HÁÚ@) († •Á¦ [{ Á&]} •č |cæði]} Áses cæðið • Ases cæðið • A Øāt`¦^Ă,HKAT ææ^¦ãæļÁæ)åÁ^}^¦\*^Áāj]`orÁzā,`d]`orÁsā,`d]`orÁsā`¦āj\*Ác@AÚXÁj¦[b/8xA∫a즈^&^&}/Á+[{Á&¦æå|^Át[Á 

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Øãi č¦^ÁiÍkÁn;[¦åæ)Á:[ ælÁ&i¦æåãææa‡i}Á;æ]Á§iÁÇ,@a?;GD¦ÈDÁÇÙ[č¦&^KA:[ æl*ã:DA <del>BHHHHHHHHHHHHHHH</del> HÁFHÍ
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28 ٽا^  I KÁÚ¦[å ڏ &oÁÜ^• ٽارہ ÁĮ ¦ÁÔ[}•^ ٽ^ & & ÁB ÁŠã ^ jãQ [å ÁÔæe^*[¦â • A <del>DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD</del>
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V@ Á{ cæ¢\$j•cæ‡^å Á&æ} æ&æ` Á; ~Á@ ÁÚ¦[b^&cÁ; āļlÁs^ÁGIÏĒ ÁTY] ÁÖÔÁse) å ÁGHEÈEHÁT XOEÁOEÔÁsecÁI €»ÔÈÁ Ù\* &@Á&æ} æ&æ` Á; āļlÁs^Ásj•cæ‡|^å Á{ A^c][¦cÁGEEATY ÁOEÔÁ;[, ^¦Á{ Á@ Á⊳ÒÚÔU Á\*¦ãa ÈBÁ

#### %%&'%Dfc**^{Whi7** ca dcbYbhg``

#### <u>DJ'AcXi`Yg</u>'

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OBB&{|¦åãj\*Áq[Áko@ÁÒ}çãi[}{ ^}cæ‡ÁÚ¦[c^&cãj]}ÁŠæ; ÁÞ[ÈÁQ;GDBA\*^æ¦ÁƏE€ÎÉko@ÁÒQDEA\*cčå^Ár@qč|åÁa>Á å[}^Áa>-{¦^Ác@Áj¦[b^&cA#iÁnjãaãeee^åÁce)åÁre}åÁre^}cÁq[Ác@ÁTājã:d^Áj-ÁÒ}çãi[}{ ^}cÅj@`¦^ÁñeÁ;ā||Áa>Á ¦^çã\,^åÈÁ

Ü^\* ઁ |æeā[} ÁÞ[ÈÁCF-ĨDÁÞÁ ^æ;ÁC€€€Í Á ^ œ;Á[č cÁc@:Á] ¦[&^ • • Á{[¦Á&[}å čæā] \* Áæ} ÁÒOODEÁ-cč å ˆ Áæ} å Ác@ Á ãe^{ • Á{[Áa^Á5] &|č å^åŧ Ás@ ÁÙč å ˆ ÊÁ; ¦[&^åč ¦^Á[¦Á[à cæaā] ā] \* Áæ} Á\*}çā[] { ^} cæ‡Á&|^æ;æ} &^ÈÁ

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## <u>AYhYcfc`c[mUbX'7`]aUhY</u>''

#### <u>5]f`EiƯ]hm</u>i`

Tæ• Á&[}&^}dæaaţ}•Áţ~ÁÚT F€ÁBÁÚT GĚLÁş^\^A\*ãţ` |œa}^[`•|^Áţ^æ\* \^åÁå` ¦āj\* ÁRæaj` æ' ÁHEËÄ Ø^à\`æ' ÁÎÊZGEFÏĚW@ Áåæaţî Á&[}&^}dæaaţ} •Á[~ÁÚT F€Á'æa)\*^åÁà^ç\_^^} ÁHEÈJ F€Áµg/mHÁæa)åÁ Í ÏÈJHÁµg/mHÁşã@Aş[ Ár¢&^^åæa)&^Áq[Á@@ ÁR] ¦åæajãæa)Á œajåæåå•Áãţãi of 120 µg/mHĚAJ}Á@ Aştœ@ \Á @æ)åÊZô@ Áåæaţî Á&[}&^}dæaaţ} •Áţ Á@@ ÁY[ ¦åæajãæa)Á œajåæåå•Áãţãi of 120 µg/mHĚAJ}Á@ Aştœ@ \Á @œ)åÊZô@ Áåæaţî Á&[}&^}dæaaţ} •Áţ Á@@ ÁY[ ¦åæajãæa)Á œajåæåå•Áãţãi of 120 µg/mHĚAJ}Á@ Aştœ@ \Á @œ)åÊZô@ Áåæaţî Á&[}&^}dæaaţ} •Áţ Á@@ ÁY] CEĚÁş ^\^Aà^ç\_^A Ajāţãi of 120 µg/mHĚAJ}Á@ Aşt@ A @œ]^{ \^EA}[ Á^¢&^^åæa}&^•Áş ^\^Á[à•^\;ç^åÁqţÁÚT GĚÁåæaţî Á|ãţãi Á=œæs^åÁājÁc@ ÁRī[ ¦åæajãæa)Á •œa}åæaða•ĚÁ

#### <u>Bc]qY`@⁄jƳg</u>

Ù][ơÁ[ã^^Á,[}ãṭ¦ā]\*Á, ær Ásæd ¦ðt à Á, čóhænÁ,![][•^å Ás[}•d č & cā;} Á[&ææaā;} Á[¦Ás@ár Á,![b^& cáš; Á, lå^¦Á q[Ásh^ơ^¦{ ã}^Áo@ Ásæ{ à ðt} óAsæ^|ã}^Á;[č}å Árç^|Á;![-ãr ÈAT[}ãt[¦ã; \*Á, ær Á'}å^¦œeh^}Á •ã; \*ÁsæææÁ |[\*\*ã]\*ÁÙ[č}å ÁŠ^ç^|ÁT^ơ¦ÁT[å^|ÁD¢ơ& &@APÖÎ €€ÁQPæ)å ÁP^|å Á/`]^ÁQQA;[ã^Á, ^ơ¦DDÁ

V@\Á(^æe`'\^{^}orÁ,^\^Á&ee'¦â\*åA(`óAs`'¦ā)\*ÁsaêÁcā;^Á,@ap\Ác@\Á,ājåA+]^^åA,æeAsaeA([å^!æe\Á •]^^å•ÈAX^@a&|^•Á{[ç^{ ^}oÁ&[}•ãs^\^åÁæeAc@\Á{æaā;Á}[ã\*^Á^{ ã\*•ã[}Á•[`'\&^•ÁæeA}[ã\*^Á {[}ãt['ā]\*Á[&æeaā]}ÈÁ

$$\begin{split} & \vdash \left[ \tilde{a}^{A}_{A} \wedge 2 \tilde{a}^{+} \wedge \left\{ \right. \right\} \circ A_{A}^{A} \wedge \left\{ \right. \right\} \wedge \left[ \left. \left[ \left. \left. \left. \left[ \right. \left. \right]^{A}_{A} \right] \right] \right] \left[ \left. \left. \left. \right]^{A}_{A} \wedge 2 \tilde{a}^{+} \right]^{A}_{A}^{A} \wedge 2 \tilde{a}^{+} \right]^{A}_{A}^{A} \wedge 2 \tilde{a}^{+} \right]^{A}_{A}^{A} \wedge 2 \tilde{a}^{+} \right]^{A}_{A}^{A} \wedge 2 \tilde{a}^{+} \left[ \left. \left. \right]^{A}_{A} \wedge 2 \tilde{a}^{+} \right]^{A}_{A}^{A} \wedge 2 \tilde{a}^{+} \right]^{A} \wedge 2 \tilde{a}^{+} \right]^{A} \wedge 2 \tilde{a}^$$

 $\begin{array}{l} \textbf{Ce} \acute{A} & \textbf{Sea} \acute{A} \wedge \acute{A} \wedge A & \textbf{A} & \textbf{A}$ 

#### *Á*ĨÔÙQEËZ&J æÁÜ^][¦ơÁ

Á

#### <u>D\mg]c[fUd\mUbX`Gc]`</u>

V@^Á,\{[b^&oÁsch^æÁæq|•ÁşiÁsaÁslæ)•ãaā[}æqÁ^\*ã[}Ás^c, ^^}Á@^AT[`}oæang[`•ÁÜ^\*ã[}Áse)åÁs@AÔæerc^\}Á Ö^•^\cÁÜ^\*ã[}Lás@ãÁ^\*ã[}ÁsaÁsæq|^åÁÙc^]]^Á/[][\*¦æng]@ãsæqÁÜ^\*ã[}ÈÁ

OEÁ([][\*¦æ];@38Á\*`¦ç^^Á;æ:Á&(]}å`&c^åÁ{[¦Ác@:Á]¦[b/&oÁæ4^æá{(}}ÁR\*}^ÁOEEFÎÈÁV@:Á^•`|o:Á[-Ác@á:Á •`¦ç^^Á@æç^Á;@[,}Ác@æeÁc@:Á]¦[b/&oÁæ4^æá&iÁ&[}•ãå^¦æà|^Á{[å^¦ææ^Á;[]]^Á§iÁ{[•oá];æb•Áæ);åÁ {[¦^Á\*^}d^Á|[]^•Á§iÁ[{ ^Á;æb•Á;~Á@A;![b/&oáæ4^æěĂ

Ú¦[b^&oÁæc^æAíæo∯•ÁðjÁæ)åÁ^\*ã[}ÁFFÁ,@3&@ÁñeÁR[¦åæ)ÁPãt@æo}åÁÚ|æe^æ`^ÈÁV@Á(æofiÁr[ãÁcî]^•Á ]¦^•^}oÁðjÁc@ãrÁ|æ)åÁ¦^\*ã[}Áæc^Ádæ)•ãaã[}æ¢Á¢^¦[&@^]c3&Á•čà\*¦[č]•Á[~Á&æ¢&ã[¦c@ãå•Áæ)åÁ &æ{a`[¦c@ãå•ÈÁ

#### ; Yca cfd\ c`c[mUbX'; Yc`c[mi

 $\label{eq:linear_lin$ 

#### HYWfcb]WGYHnjb[g"

#### <u>GifZJWY'k UhYf</u>"

V@ Áj ¦[b% scó heid ^ achái Áj & seet^ å Áj án @ 3j ÁOE ¦ač Ábàær ðj ÉAOE ¦ač ÁÓær ðj Áña Ána) Át ¢c?} • ãç^ Ánðj |ad) å Abal andij azt ^ Á • ^ • c\*{ Ár ðj \* Ánðj Ár@ Ár c\*]] ^ Ánaj å Aba^ • ^ ¦ Afu Ár Ár @ Ár ær c4j - ÁOE‡ { ad) ÈÁ/@ Ábaær ðj Á&[ç^! • Át ç^! ÁF ŒÉ F€Á \{ <sup>G</sup>Áj @ 38.@ Ánaj Áj (c/A) @ al^|^ Ánjj Ánaj Lá d^ c& @ 3j \* Ál [{ Ár @ Ár ær c4j - Ánat à ^ | ÁO]\* : ^ Ánjj Án [\* c@ l} Á \{ <sup>G</sup>Áj @ 38.@ Ánaj Áj (c/A) @ al^|^ Ánjj Ánaj Lá d^ c& @ 3j \* Ál [{ Ár @ Ár ær c4j - Ánat à ^ | ÁO]\* : ^ Ánjj Án [\* c@ l} Á \\ <sup>C</sup>Áj @ 38.@ Ánaj Áj [c/A] @ al ^ [\* ánaj Lá d^ c& @ 3j \* Ál [{ Ár @ Ár ær c4j - Ánat à ^ | ÁO]\* : ^ Ánjj Án [\* c@ l} Á \\ <sup>C</sup>Áj @ 38.@ Ánaj Áj [c/A] @ al ^ [\* anat ] \\ <sup>C</sup>Áj @ 38.@ Ánaj Áj [c/A] @ al ^ [\* anat ] \\ <sup>C</sup>Áj @ 38.@ Ánaj Anat ] \\ <sup>C</sup>Áj @ 38.@ Ánaj Anat ] \\ <sup>C</sup>Áj @ 38.@ Ánat ] \\ <sup>C</sup>Áj @ 38.@ Ánat ] \\ <sup>C</sup>Áj @ 31. \\

#### ;fcibXkUhYf<sup>…</sup>

V@ Áj ¦[b & o Andre Andr

Á

## %("&`6]c`c[]WU`9bj]fcbaYbh

### <u>: `cfƯ</u>

#### 6]c[Yc[fUd\]WNcbYg<sup>·</sup>

V@Á,\[b>&o4,ão^Á,⊄ão-ÁT^åão\||æ)^æ)`àã[\*^[\*¦æ]@38Á[}^Á,@38@4á,Å^•d;38co/áá,Á\*,Á\*@26@36A, [~ÁR[¦åæ)Á¢c^}å3)\*Á'[{ÁQàãa,Á5,Á@A,[¦C@Á;ÁÜæA,ÁDEBD=æĭæà,Á5,Á@A,[`C@AZV@36A,\*ã;}Á&[{]¦ã^•A c@Á,[•OÁ^¦cã/A,æto4,~ÁR[¦åæ),Áæ),áA,¦^•^}o•Á@Aå^•o4&{ã,æc^A{[¦Á@A{[}^•o4^&{[•^•c^{{}}]

#### 9 Wc gnghYa <sup>·</sup>

V@:Áj¦[][•^åÁj¦[b^&o Áæd^ædÁæiÁ']¦^•A\*}♂åÁājÁ[}^Á{ ædş¦ÁÒ&[•^•ơ\*{ LÁÙ&¦ædş¦Áædş¦åÁPāt@pæds)åÁ Ò&[•^•ơ\*{ ĚÀV@ãiÁ\*&[•^•ơ\*{ Á&[}•ã;orÁ[-Á\*+•&æds]{ ^}orÁæs)åÁ{ [`}ææds]•ÉA@34|•Áæds)åÁ`}åč jæædsi\*Á ]|æe\*>æ\*•ÊÅ, @38&@A\*¢c\*}åÁ; ædsj|^Á¦[{ ÁQàãaÁ§jÁx@(Á,[¦c@Át[ÁÜæeÁQE[Á=>æ`ædaÁ§jÁx@:Á\*[čo@Éæds)åÉ4;[{ Á ÜãcÁxæd}^^Á^\*ā]}Á§jÁx@:Á, ^•óAt[Áx@:ÁÓædsãæá§jÁx@:Á\*æedĚÅ

#### JY[YhUhjcb HmdYg

V@^Áj¦[b^&oÁsel^æá¥árÁ&@æelæ&ec^¦ã^åÁsìÁç [Áç^\*^œæāį}Ácî]^•Ási`^Át[ÁñarÁt[&ææáj}Åæekkæátlæe)•ãaāį}ædÁ {æel\*ājÁsa^ç,^^}Áç [Áç^\*^œæaį}Åcî]^•Ájæ{{^|îLÁÙec^]]^ÁX^\*^œæaj}Åæejå`T^åãec^¦¦æej^æejÁÞ[}Ë Ø[¦^•oÁx<^\*^œæaj}È

 $V @ \dot{A} : [] [ \bullet ^ a \dot{A} \tilde{a}^{A} \dot{A} [ \dot{A} @ \dot{A} ] : [ b & \delta \dot{A} @ e \dot{A} @ \dot{A} ] : [ | \dot{A} & \dot{A} & c & c & e & a \\ \delta & \dot{A} & \dot{$ 

#### <u>:UibU</u>

#### AUaaU`g`

The proposed project area for the project is not located at one of the birds' migration fly ways à  $\hat{A} = \hat{A} =$ 

Ö`^Á{ Á@Áå^¢¦ā[ |æaā[ } Áa) å Ás@Áaàe^} &^Á Á@Á æč |æ4ý^\*^œaā[ } ÁaeÁ@Á, ![][•^åÁã\*Á[ ¦Á@Á ] ![b&dÉx@Áæš }æ4håãç^!•ãĉ Á^&[ ¦å^åÁæeÁ@Á ãr Áā Áæe[ Áç^!^Â( ājā[ æ4ÈÆP[ Ár] ^&&e^A[ A^] cā/•Á ] ^!^Á^8[ ¦å^åÅå`^Á[ Ás@Á āj ¢'!Á\*^æe[ } Áå` ¦āj\*Ás@Á` ¦ç^^Êáç [ Ár] ^&&e A[ A4] cā/•Á ] ^&&e A[ -Åsāåe Á] @!^Á^&[ ¦å^åÁæeÁ@Á, ![][•^åÁãrA[ -Ás@Á] ![ b&aÆe] åÁs@Á` !![ `}åāj\*ÁæAæA ] åæ3 •Á[ -Ásāåe Á] @!^Á^&[ ¦å^åÁæeÁ@Á, ![][•^åÁãrA[ -Ás@Á] ![ b&aÆe] åÁs@Á` !![ `}åäj\*ÁæAæA ] åæ3 •Á[ ^c^!Á![ { Ás@Á] !][ •^åÁãr•Ás[ ¦å^!eĚA

## %(" 'GcW]c!9Wcbca ]W7 cbX]h]cbg'

#### <u>Dcdi`Uhjcb</u>ʻ

V@A,¦[b%&o4xáčAárA[&æc\*åA5jÁ/^|ædACEAÜ`\àæojÁse^æd£as^|[}\*āj\*Aq[AT`, æč`ædAÖārd&BoA;@&@Aæql+Á ājAOE{{ æ}AÕ[ç^\}[¦æc\*ÈV@AÚ[]`|ææq1}A,AT`, æč`ædAÖārd&BoAfrA.[ÊHI €EV@A,`{ à^\A,A, æ^+A -{¦Aô@Aræ{^A^~æAfra Ar~ædAfrA~ea7;æc\*åAæeAlÍÊJ€A;@an^AA{ æ^+Áse^Ar~ea7;æc\*åAæeAhIÊÌ€ÈV@A,`{ à^\A,A, æ^+A -{¦Aô@Aræ{^Aræ{^Ar~ædAfra Ar~ea7;æc\*åAæeAlÍÊJ€A;@an^AA{ æ^+Áse^Ar~ea7;æc\*åAæeAhIÊÌ€ÈV@A,'[b%oA æ^∞AsejåAfra & @e?~¦AT@e;}æfsä]æt^Á;ão@Aea4,[]`|ææ1}>A(ACÊĴÎHÈA

#### <u>Dfc^YWhGiddcfhhc'>cfXUb]Ub; cjYfbaYbh]b'<cghb['FYZ] YYg</u>'

As of March 2016, there are approximately 636,000 Syrians (6.7 % of Jordan's population)  $\{ | \{ a \neq \}^{h} \in \mathcal{A}_{a} \in$ 

An average of 57 % of refugee's income goes on Áæ&&[{ { [åææ‡i}} EÀÙ] ^} åðj \* Á[} Á|ã`^~að åÁ ]^d[|^`{ Á\*æ=ÁÇŠÚÕDÁ{[¦Á&[[\ðj \* Áæ)} å Á@-ææ3j \* Áÿi Á;ðj c^\EÁæ) å Á^|^&cla&ãc Á{[¦Á@-ææ3j \* Á;æe^\Áæ4^Á •ðt} ãa&æ) cÁv¢] ^} • ^• EÁ

#### @UbX'I gY'

#### <u>=bZiUghfiWhifY`UbX`Ihj`]hjYg</u>`

 $\label{eq:heat} V@AUarAsiaAzetaiA$ 

<sup>&</sup>lt;sup>F</sup>⊤Tājārd^Áį-ÁÚ|aa)}āj\*ÁaajåÁQ;o∿¦}aaaīj}aa¦ÁQ[[]^¦aaaīj}ÁQTUÚÓQDEÃQ]aa&o4j.-ÁP[•cāj\*ÁÙ\*¦ãaajÁÜ∧~`\*^^•ÉÁU&qià^¦ÁQ€FH

## %) '5 fW UYc`c[ ]WU 'UbX'7 i `hi fU '< Yf]HU[ Y'F Ygci fWYg'

## %\* 'GHJ\_Y\ c`XYf '**=**XYbh**jZjWLhj**cb'

$$\begin{split} \dot{U}_{ceeh} & @_{|a^{+}} \land A_{Q} & |a^{+}| \approx \dot{A}_{s} & \dot{A}_{$$

- $(a^{+}) = (a^{+}) = (a$
- Ô[}å č & cāj \* Áxá & []āj \* Á^••ā]} Áxá) å Åa[& č { ^} cāj \* Ázō Á^•č |o• Á3j Áxá Åa & []āj \* Á Å ••ā] { Ac ā] } Á^] [ c æ Á j æ d ( Ac @ Ac a) æ A/ [ Ü È
- Ô[}å ĭ & cāj \* Á ãơ Áçã ão Áţ Á (^^ó, ão@Á\$[{ { `}}ãc Á^] ¦^•^} caecã;^•È

# %+·÷¥YbhjZjWUhjcbˈcZ 9bj]fcbaYbhU`UbX`GcWjc!YWcbca]W 5gdYWfg`UbX`FYWYdhcfg`

O EÁå^-ājātāj}Á[-Á^}çā[]{ ^} cæļÁæe]^&or Áæå[] c\*åÁ[¦Ác@árÁÒÙOD EÁá Ájæ{ ^|^ Ác@ærÁå^-āj^å Áà ÁDÙUÁ FI €€FK GE€IÁÒ}çã[]{ ^} cæþÁTæjæt^{ ^}cÅ\`•c^{ •ÁEÛ]^&ãããææāj}Åjáīt@Ő`ãåæj&^Á[¦ÁM+^EÁOE;Á ^}çã[]{ ^} cæþÁæe]^&orÁã Áå^}[c\*åÁ]@'!^ÁæjÁæ&cãpãĉ Á@ærÁc@A][c\*}cãæþÁc[Áājc\*¦æ&cAjãt@Ác@A ^}çã[]{ ^} cæþÁæe]^&orÁã Áå^}[c\*åÁ][c\*åÁ] @ '!^ÁæjÁæ&cãpãĉ Á@ærÁc@A][c\*}cãæþÁc[Áājc\*¦æ&cAjãt@Ác@A ^}çã[]{ ^} cĚÁOEA[&ãpË\*&[}[{ 826 Å e]^ & 866 Å e]^ & 866 Å a ][c\*}cãæþÁc[Áājc\*¦æ&orÁ]ãt@Ác@A\*[&ãæþÁ[¦Á\*&[}[{ 88A\*};cã]]{ ^} orÁjãt@3jÁ[¦ÁœeAc@Açã&ãjãcÂ[eAcA •]^&ãæþÁc[Áājc\*¦æ&orÁ] ãt@Ác@A\*[&ãæþÁ[¦Á\*&[}[{ 88A\*};cã]]{ ^} orÁjãt@3jÁ[¦ÁœeAc@Açã&ãjãcÂ[eAcA •]^&ãæðAj¦[b\*&orÁa\*/æÈĂ

Q Á[¦å^¦Áq[Áãā^}qã\*Á^}çã[]{{ ^}cæ;Áæ}åÁ•[&a]tË&[}[{ 3&Aæ]^&o\*Á-[¦Ác@á\*Á]¦[b/&dÊA]|[b/&dÊA] æ&añçãa?•ÉÅ \_ @3&@Á { æ Á æ-^&cÁ ^}çã[]{ { ^}cæ;Áæ}åÁ •[&a]tĚ&[}[{ 3&A ¦^&^]q[¦•ÉA ¦^\*\*ã^A ãa^}cãa38æana]}ÉÁ/@á\*Á@æe Áa^^}Áæ&@3\*ç^åÁc@[\*\*@kÁ

- Ú¦[b%&dË^|æe^åÁtčå&?•Áæ)åÁå[&č{ ^}cæea[}L
- Ô[}•`|œæaji}Á,ão@áj\¦[b%&oáj\¦[][}^}oásbèÈÖ^ç^|[]^¦ÁçÓæê}[`}æDL
- Ô[}•`|œætā]}Á,ãt@ÁT[Ò}çÁå`¦ā]\*Át@AÛ&[]ā]\*ÁÛ^••ā]}Åæ}åÁ/[ÜÁ5]Áæååãtā]}Át[Á^|^çæ)c
   •œà^@Įå^\=È

$$\begin{split} \dot{O} = & \left[ \left\{ -\right\} \cos(4) - \left[ -\right] \cos(4) -$$

## %, <sup>·</sup>5 bU'ng]g'cZDfcdcgYX'Dfc**^**YWi5`hYfbUh]j Yg'

U c@ ¦Á; ¦[b/8 cókz^8@;[|[\* 81\*• Á@eeç^ Ása^^} Á8[{] æ håÁ ãc@ Á^•]^8 cók[Ác@ãr Á; ¦[b/8 cóÁ;@38:@ Árá@ Á \* A [~Áclæ&, ā]\* Á; ¦Á;[} Ёclæ&, ā]\* ÁÚXÁ;[å`|^• ÈÁZ[¦Ác@ãr Á; ¦[b/8 cófūcÁār Á[`}å Ác@eec/ĩu/ár Á;[¦^Ár~-3828}}cáq[Á `•^Áclæ&, ā]\* ÁÚXÁ;[å`|^• ÈÁ/@ Á`||Ásañ 8,`••ā;} Áīr Á; ¦[çãa hå/áj Ác@ ÁDÙODEÁ^][¦cÉA h8cā;} Â È HÉÁ

Tæn á Ázet\*\* { ^} or Á , - Á az Á ^ / ^ & Caj } Á @enç ^ Áz ^ ^ } Án + [ Áz áz & • • ^ z Á } z ^ + Á OZ áz Áz / ^ / ^ & Caj } Á @enç ^ Áz ^ / ^ A Az + [ Áz áz Áz / ^ / ^ & Caj } Á / / ^ & Caj } Á / / ^ & Caj } A / ^ & Caj } A / &

### %- '**=a dUWi5 ggYgga Ybh**i

 $\begin{array}{l} CE_{A}(a) & (a) & (a)$ 

 $\ddot{O}^{} czzeth a f_{1} - A f_{1} = zz + (-) +$ 

OZÁalà?→Á`{{ æ'Á,~Ás@A^^Á,[c^}cãaq4Áa,]æ&ce Ása)åÁs@ālÁ&[¦¦^•][}åāj\*Á,ãcātæcaā,}Á,^æe`¦^•Ása)åÁ {[}ãa[¦āj\*Á^``ā^{{ }} or Ása-^Á,!^•^}c^åA\$jÁs@Á/æà|^•Ása^|[,ÈÁ

## %%\$`9bj]fcba YbłU`UbX`GcVJU`AUbU[ Ya YbhD`Ub`

5 gd YWh	?YmiDchYbh]U ≔adUWhi	A]h][Uh]cb`AYUgifYg`	A cb]hcf]b[ F Yei]f YaYbhg	:fYeiYbW mi	FYdcfh]b[`	DYf2cfaUbW Y"=bX]WUhcf	FYgdcbg]V ]`]hni
D\mg]WU <sup>·</sup> 9k	oj ]fcba Ybh		I				
CELÁÛ * æ¢áč Á	Ö`•oÁ *^}^¦æaāį́}Á å`^Á dైÁ &[}•d`&āiį}Á æ&aã;ãaã∿•ÁÁ		Xãřæ¢Á {[}ãt[¦āj*Á [-Áåĭ•oÁ^{ã•at]}•Á åĭ¦āj*Á ^æsco@[¦\•A æ3)åÁ &[}•dĭ&cat]}Á æ&catjãtã•A		Ô[   ^&@aţ^Â æ&cā] } • Á[  Â æ%cā] } • Á[  Â æ%cā] } • Á[  Â æ%cā] } • Á å * • Á *^ }^ æeā] } Á ã • * ^• Á Ô[ } dæ&d[  Â • @a# Â ]  ^] æ A @aţ Å • à{ ãr á æ  ^] [ loÁ d[ Â Óæ} [ *] æA ā Á&æ ^ Á[ ~Â & [ { ]  ãæ) c • Á	8[}∙d`8cā[}Á  •ãe∿ÈĂ	ÒÚÔÁ Ô[}dæ&q¦¦Á
	Ô¢@eĕ•oÁ ^{ã•qã}}•Áã`^Áq[Á []^¦æeã]}ÁjÁ &[}•d`&cã[}Aj æ}oÁ æ}åÁ(æ&@3,^¦^Á	<ul> <li>Ò}•`¦^Áæå^``æ¢Á{æij c^}æ)&amp;^Áæ)åÁj•]^&amp;æj}Á{~ ç^@8k]^•Á[Á,jā]ã ã^Á¢¢@eĕ•oÁ{ã•ã]}•È</li> <li>Þ[oÁ`}}ã]*Á*}*ã]^•Á[¦Á[]*^¦Áœ)Á§A,^&amp;^••æ^È</li> </ul>	Xãr`æ¢Á { [}ãd[¦ā]*Á [-Á ^¢@eĕ•oÁ ^{ãr•ā]}•Á å`¦ā]*Á ^æsco@[[\•Á æ}åÁ &{[}•d`&cā]}Á æ&cañ;ãuā)•Á		Attid	Ü^*` æsÁ ç^@a84^Á {æ35]c^}æ)&^Á ¦^&[¦å•Á	ÒÚÔÁ Ô[}dæ&d[¦Á

5 gd YWhi	?YmiDchYbhjU' =adUWhi	A]h][Uh]cbʿAYUgifYgʿ	Acb]hcf]b[ FYei]fYaYbhg	:fYeiYbW mi	FYdcfh]b[	DYfZcfaUbW Y`=bX]WUhcf	FYgdcbg]V ]`]hmi
Þ[ ã^Á			Þ[ã*^Á { ^20e``  ^{ ^} o Á d Á à^Á `}å^!c2a\^}Á å`  3]*Á&[}•d`&c3]}Á æ&cãçãa?•É&e&@Áã¢A 3}Á [¦å^!Á d Á å^{ [}•d2ae^Á	U}^Á([}c@ æe^!Á •cæ+cÁ `]Á æ}åÁ ^ç^!^Á `æ+e^!Á æe*!Á @æ*!Á @æ*!Á @æ*!Á @a}åA æer!Á !^&^ãçā]*Á a)^Á &[{]@æ3;oA +[{ Á	¦^][Ìcāj*Á dţÁ Óæŝ}[ĭ}æÁ ājÁ&æ•^Á[-Á æ}^Á ^¢&^^åæ} &^	Ô[{] ãæ) &^Á ,ãc@ÁT[Ò}çÁ að)åÁÞæcā[}æ¢Á *`ãâ^ ã)^Á  ã]ão•Á -{¦Á	ÒÚÔÁ Ô[}dæ&d[¦
Ù[ đÁ	Ù[ā]Á &{}cæ{ā}ææā[}Á	<ul> <li>OZÁ•] ặlÁ] !^ç^} cặ } Áæ) åÁ!^•] [ } •^Á]  æ) Á• @el Áà^ ] !^] æð^å/b Ác@ Á&amp;[ } dæ&amp;q !ÁB Á !å^!Áq !ÁS[ } d[  Áæ) ^ ā æåç^!c^} of/æ æ' ^Á !Á] ālæ' ^È</li> <li>Ù] ặlÁ?•] [ } •^Á ?æ ' !^•Á @el Áb^Á§ ]  ^{{ ^}} ? c*å/§æ }^&amp;/•æ æ' DÁ q Á &amp;[ } cæä) Á æ) åÁ &amp;[^a) á `] Á æ) ^ &amp;[ } cæ§ ā æc*å/A[ āÈ</li> <li>Ô[ } •d * &amp;cā] } Á! -Áb ` } å• Áæ![ ` } åÁ!^ ^çæ) of, [ !\ Áæ) å •q !æ*^Áæ} ÆÁÓ` } å• Áæ![ ` } åÁ!^ ^çæ) of, [ !\ Áæ) å •q !æ*^Áæ} ÆÁÓ` } å• Áæ] č àá!^a /açæ) of, [ !\ Áæ) å •q !æ*^Áæ} æ EÁÁÓ` } å• Áæ] č àá!^a /açæ) of, [ !\ Áæ) å •q ' !aÁb^Aæ ÆÁÁČ] å• Áæ] č àā * Ác? ] [ !æ* Á•q !æ*^D • @`  aÁb^Aj] ^ åÁ§ ! &amp;a] *Ác? ] [ !æ* Á•q !æ*^Aæ) å { ā ā ī ā ^ A c@ A ] [ c*] cæa Aæ&amp;æA? æA? ] ālæ* ^Æ9 å { ā ā ī ā ^ A c@ A ] [ c*] cæa Aæ&amp;æA? [ Åaæa] } Á q A c@ ` } å^!  ~ā * Á[ āÈ</li> <li>OŞ ^ Á] āl/å&amp;@? a&amp;æA @el Áa^Ƨ { ^ åãæc^]^ Ƨ [ ! ^&amp;cvå æ) åA åã] [ •^åA [ -Á ā A æ&amp;&amp;§ ! åæ) &amp;A A ; ãc@Á Ù] āl Ú!^ç^? cã } Áæ) åÁ Ü^•] [ } •^Á Á Ú]æ) Áæ} åA T ær!ãæ Ùæc'! ^ ÁÖææÂÙ@^c ÁÇT ÙÖÙIÈ</li> </ul>	<pre> }[ā^AA, ^c^İÈ Xã* a \$\overline{A} Q.•]^&amp;ca]}A [-A •q['a*^A a\$\overline{A} a</pre>	c@3åÁ ]æ¦cã∿∙È Y^^\ ^Á	CЩÁ ˘}] æ}}^åÁ ∄&ãâ^}œĐ æ\$&ãâ^}œÁ æ}åÁ Ô[!!^&cã;^Á æ\$cã;}●ĚĂ	āj&ääå^}o•Áq[Á à^Á¦^&[¦å^åÁ åĭ¦āj*Á [}Ë	Ô[}dæ&d[¦Á

5 gd YWNi	?YmiDchYbh]U ≔adUWhi	A]li][Uh]cb`AYUgifYg`	Acb]hcf]b[ˈ FYei]fYaYbhgˈ	:fYeiYbW mi	FYdcfhjb[`	DYf2cfaUbW Y"=bX]WUfcf	F Ygdc bg]V ]`]Imi
		• Ô[}dæ&d{¦Á@qq Á}•`¦^Á@qæ&aA]ā Aã&aa}å&a& ÚÚÒÁa Ásçaaãjaaà ^Áseckô@ÁãA{¦¦A}}&`X 2&AajA*&A[kaka A] 2&&aãçãa A§A&A&A[A&A&A]					
	Ù[āļA‰āā¦čàæ)}&∿Á	• V[Á&[}d[ Á*[āļÁ*¦[•ā]]ÊÅ*`¦~æ&^Á``}ˇ~~Á*@[` åÁà^ &[  ^&c^àÁ ~~[{ Áæ‡ Á]æç,^åÁ, [¦\ā]* Áæ}^æ•Áā]d ¦^c^}cā]}Ååãa&@•ÁţÁ^•dã&cA&[}&^}dæaā]}Áţ~Á4[, •	Xãr`æ‡Á Q••]^&cāt}}Á [~Áæ)^Ác^{][¦æ}∱Á •[ã‡Á•d[¦æ*^Áæ)åÁ ¦`}Ë;~~Á&[}d[ •Á		Ô[¦¦^&cã;^Á æ\$cãi}}●Á ¦^][¦cã;*Á	Ü^*č ækÁ ậ∙]^&cậ[}Á ¦^][¦œÁ	ÒÚÔÁ Ô[}dæ&d[¦Á
Xãrĭa¢Á CtĘ^}ãcÂ	Xãr`æ¢Á ã[]æ∨Á -{[{Á&[}•d`&aā]}Á æ&aã;ãiā1•Ár`&@ÁæorÁ {æes\'ãæ¢+Á  æêÁ å[,}ÊÁ ^¢&æçææã[}ÊÁ àæ&\-ã][ð]*`	æ)åÁ"[[åÁ@Įč•^\^^]ā]*Áj,¦æ&ca&∧ÁæeÁ©Aj,¦[b^&cÁ;ãe^ æe‰ep Áaãį ^•È	Xã čapkāj•]^&cāj}Aj, Aj, -Á *^}^¦appÁ @ č•^\^^]āj*Áag)åÁ & Ag)aj, ^••ÁaecÁ-ãc^A āj, Ásocia čaāj} As[Á æc c^A { ag)aci ^{ ^}oÅ [}A •ãc^EÁ		Q••]^&cāj}Á  ^][¦œÁ	Ö[[åÁ @[*•^\^^]Ë a]*Á]¦æ&a&~A æ)åÁcãaā]^••Á [-Á [!\Á æ}^æA_ão@a,Á c@Á]¦[b^&oÁ •ãc^ÈÅ	ÒÚÔÁ Ô[}dæ&d[¦Á
Yæ∙c∿Á Õ^}^¦æaą́ }Á	Pææåå•Á ]¦^•^}¢åá à^Á ąį]¦[]^¦Á { æ}æ*^{ ^}óAæ}åÁ @ææåä[`•Á æ}åÁ }[}Ë@ææå[`•Á ,æc^Á å`¦a}*Á &[}•d`&@ą}ÈA	@ze ælå[`•Á ¦^& & & & & & & & & & & & & & & & & & &	[-Á•ãč Á& ^a)  ā, ^•• Á a) å Á, ![]^!Á q !æ ^Á a) å Á @a) å [] * Á [ -Á @e adå[ `• Á _ æ c ^Á a) å Á^, æ ^ ÉÁ Q•] ^& Á _ æ c Á .^* !^* æ â A _ æ c Á åã ] • æ Á [ Á q !æ ^Á		Ô[}dæ&q[¦Á •@æ A ]¦^]æ}^Á æ}åÁ •`à{ãvÁ {[}c@?Á ;æc^Á ¦^][¦cÁ q[Á Óæŝ}[`}æ ÈĂ	Ô[{] ãæ)&^Á ,ã@Á,æ¢^Á {æ}æ*^{^} oÁ ]![&^å`!^•ĔĂ ]`![&^å`!^•ĔĂ Å[{] ^¢^Á !^&[]^^¢Á !^&[a•Á [,4 ]^*` æÁ ,梢Å,ã&`]Á	Ô[}dæ&q¦Á

5 gd YV <b>W</b> i	?YmiDchYbh]U` =adUWhi	A]h][Uh]cb`AYUgifYg`	Acb]hcf]b[ˈ FYei]fYaYbhg	:fYeiYbW mi	FYdcfhjjb[	DYf2cfaUbW Y`=bX]WUhcf	FYgdcbg]V ]`]lmi
Y æ¢\¦Á Ü^•[`¦&^ •Á	, æe^¦Á¦ັ}[~~Á ĐÁ	<ul> <li>V@Á&amp;[}dæ&amp;q[:Á:@et Á*•cæà]ā:@Á***  æA\$;c*;çæ*Á{; waste collection and disposal as per contractor's , æ*cA{; æ}æ*{ *} o\$; 4; 8*, **.</li> <li>V@Áæ; æ*c*Á; æ}æ*{ *} o\$; 4; 8*, **.</li> <li>V@Áæ; æ*c*Á; æ}æ*A; **.</li> <li>V@Áæ; æ*c*Á; æ; 1*.</li> <li>V@Áæ; a*.</li> <li>A*.</li> /ul>	妿∄jæ*^Á -^æč ¦^∙Á	åĭ¦āj*Á	¦^][¦orÁ æ)åÁ 0,8æã^}ơÁ ¦^][¦orÁ∢[Á	[]^¦æaãį}∙Á	Ô[}dæ&o[¦Á ā)Á
		<ul> <li>Y zeůá Á Ázy) ů ÁFFÁ^č ã^Áč   Á;  [ c^&amp;cái ] Ái ¦Ás@ Ái zelor  [ &amp; zec^ů Á, ác@ai Ás@ Ái ! [ b^&amp;cÁze^ zefee Ár @ ; } Ái ÁHUV Y '* È</li> </ul>					

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6]c`c[]WU`9	9bj]fcba Ybh			· · · · · ·			·	
V^¦¦^∙dãæ¢Á Ò&[  [ *^Á		{ Á } • ل • ل د ۲	لَّا:[@ðaāoÁ¦^{ [çæa¦Á[,Á^¢ārcā]*Á}æoč ¦æa¦Á] æ);oÁāÁ}[c ^&^••æ^Á[¦Á&[}•d`&cā]}È Ĵ![@ðaāoÁ,[¦\^!•Á¦[{ Á&čcā]*Á;æoč ¦æa¦Á] æ);oÁājÁc@ č`¦![`}åā]*Áæe^æá{[¦Áā]^È Ĵ![@ðaāoÁ;æ&@3]^\^Á![{ Á•ā]*Áč ¦![č}åā]*Áæe^æá{ ش@Á]![][•^åÅrāc^ÁæeÁ]æa\ā]*Áţ¦Á;æā;c}æ);&^Áæe^æá [¦Á;æ&@3]^\^È	Xãrča‡Á ậ,•]^&cąĩ}Á ,ão@3;Aj¦[b∿&oÁáãr^È	CЩÁ c@[`*@[`oÁ &[}•d`&caj }Á	Ú^¦ā[åã8Á ¦^][¦ơ&{Á Óæê}[ĭ}æ [}ÁÔPÙÁ ]^¦-{¦{æ} &^Á	Þ₩D¥Á	ÓÚÔÁ Ô[}dæ&a{¦Á
	Ú[c^}cãædÁ Öãrcĭ¦àæ)}&^Á ~æĭ}æÁ	[Á ] • ŭ ] ( 0	Ú¦[@àāādÁ, [¦\^¦•Á+¦[{Á@}}cā)*ÉA,āļļā,*Áaa)ā[aa†-Áæ ^  Áæe Áå^•d[^ā]*Á*¦[`}åÁ,^•o•Á{[¦Ásāå•Áāj•ãa^Ás@ ' ]][•^åÁrāc^Áaa) åÁc@ Á`¦![`}åā]*ÁæAaÈ Ú^] a&A^áa>^Á -{`}åÁ*' [`}åÅ}^•o•Áāj•ãa^Á c@ ' ]][•^åÁ•ãc^Áā]Á&[[¦åā]aæaā]}Á,āc@ATājā*d^Ác@ ' ][•^åÁ•ãc^Áā]Á&[[¦åā]aæaā]}Á,āc@ATājā*d^Á[~ Ú}çā[]{^}cÁ aa)åÁ c@A Ü[^aa†A Ù[&ābc`Á -{¦ DĴ[}•^¦çæaā]}Á{, Ápaæč¦^ÁQÜÙÔÞD Ú^][¦cÁaa)^Á\āļ]ā]*Áæ&&ãaA}o•A-{¦¦Á,ā†åÁ ã^Ác{Ác@ Fājā*d^Á;ÁQ}çã[]{^}cÁaa)åÁÜÙÔÞÈ	Ô[[¦åa];ææa[i}Á ,ãc@Á ÜÙÔÞÁ ,@}Á }^^å^åÈÁ	C≣Á c@[`*@[`oÁ &[}∙d`&aā[ }Á	Ú^¦āļåā&Á  ^][¦ơÁţÁ Óæê}[ĭ}æ [}ÁÒPÙÁ ]^¦-{¦{æ} &^Á	Þ₩ÐÆ	ÒÚÔÁ Ô[}dæ&q[¦Á

5 gd YWhi	?YmiDchYbh]U` =adUWhi	A]h][Uh]cb`AYUgifYg`	Acb]hcf]b[ˈ FYei]fYaYbhgˈ	:fYeiYbW mi	FYdcfh]b[`	DYfZcfaUbW Y`=bX]WUhcf	F Ygdc bg]V ]`]Imi
		<ul> <li>Ö^&amp;\'^æe^Ác@^Á&amp;[}•d`&amp;cāj}Áæ≻āçãc Át[Ác@^Á{ājāja# å`¦āj*Á}āt@cÁ cāj^Á c[Á å^&amp;\'^æe^Á][c^}cãa# åã•c`¦àæ)&amp;^È</li> </ul>					
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P^a¢c@Á æ)åÂvæ^ĉÁ ¦ã∖∙Á	Ú[ c^} căəəbÁ [ -Â ^c] [ •` ¦^Á d Â • æ^c Á ^ç^} o Â • & @fee ÁAd ] ] 3 * ÉA [  \ 3 * Áee Á@ 3 @A æ& că fai A [ { Â @ cÁ [  \ 6A 4 [ \ 3 * ÉA A A [ { A 0 cÁ [ ] 2 * ÉA 4 [ \ 3 * ÉA A 4 • (A & B & A 5 • CA ] 2 * CÁ A 3 • CA ] 2 * CÁ A 3 • CA ] 2 * CÁ A 3 • CA ] 2 * CÁ A 4 [ à A A ] 2 * CÁ A 5 * CA A 6 * A A 1 * A & A & A & A 1 * A & A & A & A & A 1 * A & A & A & A & A & A & A & A & A & A	<ul> <li>P^ædo@Á BÁ Ùæ^ć Á ÇČP ÙDÁ ¦^jæt^åÁ] [ jätä*é Á æj å ] ![ &amp;^å` !^e Æ] Á ťát È</li> <li>Ottil &amp; et at a finite field of a field a fi</li></ul>	à^Á•^¦Áa^-{¦^Á ^æ&@Áæ&cāçãcÂ ¶ @(`•^\^^]ā) *Á{¦Á c@^Á;¦[b%oÁãc^Á Routine Facilities' aa) åÁãc^ÁQ•]^&cā[}Á	Ú¦āţ¦ÁţÁ æ≻ãçãĉÁ Ô[}cājč[č • `Á T[}c@;`Á	Ô[}d&q[:•Á •@# Á ]:^] æ^Á æ}åÁ •`à{ãrÁ { [}c@îÁ PBÙÁ !^][:ck[Á Óæ}[`}æÁ	Ü^&[¦åæà ^Á Q&ãå^}&^Á Üæc^ÁQ/ÜQÜDÁ Š[•oÁ Vā]^Á Q&ãå^}&^Á Q&ãå^}&^Á Ø?*** Ø?** Ø?** Ø?** Ø?** Ø?** Ø?** Ø?** Ø?** Ø?* Ø?	
		æå^˘˘æ∞Áfã@cāj*È • Ùãt}][•cÁæ)^Á•[āj]^¦^Áæi^æéà ^}•ĭ¦^Á]¦[]^¦ -{[ç,^æ4Ájãc@4∞á*[[åÁ*¦ājÁãrÁj[¦}Á-{¦Áj^¦•[}}^  ,[¦\āj*Ájãc@3jÁ=[āj]^¦^Áæi^æeÈ	Q••]^&ca‡}Áţ-Á Ò``a]{^}oÁæ)åÁ d[[ •Á•^åAå`¦a]*Á	Ú¦ąĩ¦Á đ[Á ֻ[¦∖Á æ&3cãçãcÂÁ		]^¦-{ ¦{ ^åÁ Þ`{ à^¦/į,-Á }[}芭	

5 gd YWn	?YmiDchYbh]U =adUWhi	A]h][Uh]cb`AYUgifYg`	Acb]hcf]b[ˈ FYei]fYaYbhgˈ	:fYeiYbW mi	FYdcfh]b[`	DYf2cfaUbW Y`=bX]WUhcf	F Ygdc bg]V ]`]hmi
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		<ul> <li>•] ^ &amp; /li></ul>	{[àậh/Á] æ)∞Á X∧@anavo-á æ\åá				

5 gd YWhi	?YmiDchYbh]U ≔adUWhi	A]h][Uh]cb`AYUgifYg`	Acb]hcf]b[ FYei]fYaYbhg	: fYei YbW mi	FYdcfh]b[`	DYfZcfaUbW Y`=bX]WUhcf`	F Ygdcbg]V ]`]Imi
	Ò¢][•`¦^Á ([Á @a¢o@Á ^ç^}œÁ å`¦ā]*Á &{}•d`&cāl}Á æ&cāņāa3••Á•`&@éæeÁ {a)`a¢Á@a)å ā]*É ^ ^&c3&a¢A •@[&\•Á a)`a¢á`!}•É4@a)åE æ{Á çãa¦æaāl}É c{][¦æ}^Á []¦ a 4Å çãa!æaāl}É c{][¦æ}^A a] a 4Å çãa}*Á[ •d^••ÉA a)åÁ å^!{æaaãaa	<ul> <li>à^-{  ^ A(Q)^ / Ásé^ / Á,^   { ã(C^ à / Át (Á ) å^   Gzé ^ Ásé/sze \ È</li> <li>Ò ) • `  ^ A(GQzeA[] ^   azaj ) • ÉA, GZRQA j ç[  ç^ A( a) ` ae</li> <li>Qze) å   j * ÉA ae ^ A   a j az ^ à A • [ Á - ae / Áze A   ^ aze [ ] aza  ^</li> <li>]   az GZRZEA   ^ ÉA   [ ; ÇZE ^ A / A </li> <li>]   az GZRZEA   ^ ÉA   [ ; ÇZE ^ A / A </li> <li>]   az GZRZEA   ^ ÉA   [ ; ÇZE ^ A / A </li> <li>]   az GZRZEA   ^ ÉA   [ ; ÇZE ^ A / A </li> <li>]   az GZRZEA   ^ A </li> <li>]   az GZRZEA   ^ A </li> <li>A </li></ul>	T[}ãi[¦Á;@Á@æ¢@A [-Á;[¦\^¦•ÁA a)åĄ[]^¦æāj}•Áj[Á aå^jā4]^¦æāj}•Áj[Á aå^jčā`Á;[ā^A @ææå•ĚA Q•]^&cā;Å[ā^A @ææå;EA Q•]^&cā;Å[ā^A @æáj;[c^&cāj}Á ^~~j;{~}cA ØācÁ/^•cāj*Á	Ô[} cāj ˘[˘ • ˆ Á T [] c@ĵ Á Ú¦āj ¦Á∿•^Á	Ó[}d&q[:•Á •@e#[Á ]:^]æ^Á æ}åÁ •`à{ãxÁ { [}c@îÁ PBÙÁ !^][:cÁ q[Á Óæî}[`}æÁ	Ü^&[¦åæài ^Á Q&ãã^}&^Á Üæe∿ÁÇ/ÜQÜDÁ Š[∙cÁ∕ā[^Á Q&ãã^}&^Á	ÒÚÔÁ Ô[}dæ&d[¦Á æ}åÁ Óæî}[`}æi

5 gdYWhi	?YmiDchYbh]U` =adUWni	A]hj[UhjcbʿAYUgifYgʿ	Acb]hcf]b[ ` FYei]fYaYbhg`	:fYeiYbW mi	FYdcfhjb[`	DYf2cfaUbW Y`=bX]WUhcf	FYgdcbg]V ]`]Imi
		<ul> <li>^~~ a { ^} c @ @ @ A A A &amp; &amp; a a A [ ~ c A a A [ i a ^   A A A A A A A A A A A A A A A A A A</li></ul>	ÔæŀÁ[¦Æ^æÁ ]¦[c'&đ]}Á ^~~đ]{^}ŒĂ	Ú¦ą́¦ÁįÁ ^{] [^{ ^ }ơÁ T[}ơ@́rÁ		Öæ^•Á ÇÜY ÖÔDÁ PÙÒÁ V¦æŋj]; *Á P[`¦•ÁA Þ`{ à^¦Á[-Á }[}ËA &[}-{ { æ]& ^A;ç^} œÉA	

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5 gd YWh	?YmiDchYbhjU ≔adUWhi	A]h][Uh]cbʿAYUgifYgʿ	A cb]hcf]b[ˈ F Yei]fYaYbhgˈ	:fYeiYbW mi	FYdcfhjb[`	DYfZcfaUbW Y`=bX]WUhcf	F Ygdc bg]V ]`]Imi
GcWjc!YWck	oca 1Wgʻ	<ul> <li>Òļāţā ā æchá@Áā \ Á Akc] [•` \^Á @ }^ç^\ Á [• ā a  ^Ê]</li> <li>] \[çãa^Á] \[]^\ÁÚÚÒÁ @ \^ç^\ Á &amp; &amp; &amp; a a a  ^Ê]</li> <li>] \[çãa^Á] \[]^\ÁÚÚÒÁ @ \^ç^\ Á &amp; &amp; &amp; a a a  ^Ê]</li> <li>` \^Ác@æcha@ \^Áa A &amp; a æa a a a d   ^ Á a æ @ a ha a a a a a a a a a a a a a a a a</li></ul>					
V¦æ- <b>æ</b> Á	O5ååãaậ[}æ⇔Ádæ-a&A ∥[æåÁå*^ÁqÁ dæ)•][¦cÁ [~Á	<ul> <li>V@Á&amp;[}dæ&amp;d[:Ád(Á^}•`:^ÁœæÁæd,Ádč&amp;&amp;.Áæ)å ç^@&amp;d^.6&amp;&amp;.éæ&amp;d:Ad(Á^}e`:^Ac@Aæ&amp;d,Ad(]^!æ*åAà` [ak^}•^âA,]^!æt[:eÈ</li> <li>Ú^å^•dãæ)•ÂUæ^c KADE[A,![]6*&amp;A,AA)*A&amp;d,AA</li> <li>@ed(A&amp;]</li> <li>@ed(A&amp;]</li> <li>(j)*:</li> <li>Adeata</li> <li>(j)*:</li> <li>(j)*:<td>Tæbjædjá []^} åãæļ[*`^Á ,ão@ Ò ^&amp;dā&amp;Á ][,^¦Å ] a)oÁ-æsājācÁ•āj&amp;^Å c@]¦[b%oÁ•ãcÁā ^æaj æs&amp;^•aāhÅ c@[`*@ÁT`,æ`æÅ c@[`*@ÁC`,æ`äÅ ad^æbjÅ@Å[`c@Å! ad^æbjÅ@Å[`c@Å  ^æbjÅ c@Å [`c@Å  ^æbjÅ c@Å [`c@Å  ^aæbjÅ c@Å [`c@Å  ^aæbjÅ c@Å [`c@Å  ^abjÅ c@[`*@Ác@Å [`c@Å ]['c@Å,^•cÅ[~Åc@Å ~[coÅ,^*cÅ] {[ç^{ ^}oÅ cÅ { [ç^{ ^}oÅ cÅ ab^æbÅ</td><td></td><td>ậç^∙ca*æc ^åÁ æ}åÁ</td><td>Þ[Á &amp;[{] æ#j•Á[¦Á &amp;[]&amp;^})•Á {[{ Á dæ#i afa]}æ#Á `•^\•Á[-Ác@-Á area's roads ¦[čc•Á æ#^Á ¦^&amp;^āç^åÁ a`i]a*Á c@-Á &amp;[]•d`&amp;ca]}Á æ\$ca;āfa?•EÅ Þ[Á]a&amp;&amp;a^}o•Á [¦Áæ&amp;&amp;&amp;a^}o•Á [¦Áæ&amp;&amp;&amp;a^}o•Á &amp;[]a*a]}•DÅ</td><td>ÒÚÔÁ Ô[}dæ&amp;q[¦Á</td></li></ul>	Tæbjædjá []^} åãæļ[*`^Á ,ão@ Ò ^&dā&Á ][,^¦Å ] a)oÁ-æsājācÁ•āj&^Å c@]¦[b%oÁ•ãcÁā ^æaj æs&^•aāhÅ c@[`*@ÁT`,æ`æÅ c@[`*@ÁC`,æ`äÅ ad^æbjÅ@Å[`c@Å! ad^æbjÅ@Å[`c@Å  ^æbjÅ c@Å [`c@Å  ^æbjÅ c@Å [`c@Å  ^aæbjÅ c@Å [`c@Å  ^aæbjÅ c@Å [`c@Å  ^abjÅ c@[`*@Ác@Å [`c@Å ]['c@Å,^•cÅ[~Åc@Å ~[coÅ,^*cÅ] {[ç^{ ^}oÅ cÅ { [ç^{ ^}oÅ cÅ ab^æbÅ		ậç^∙ca*æc ^åÁ æ}åÁ	Þ[Á &[{] æ#j•Á[¦Á &[]&^})•Á {[{ Á dæ#i afa]}æ#Á `•^\•Á[-Ác@-Á area's roads ¦[čc•Á æ#^Á ¦^&^āç^åÁ a`i]a*Á c@-Á &[]•d`&ca]}Á æ\$ca;āfa?•EÅ Þ[Á]a&&a^}o•Á [¦Áæ&&&a^}o•Á [¦Áæ&&&a^}o•Á &[]a*a]}•DÅ	ÒÚÔÁ Ô[}dæ&q[¦Á

5 gdYWh	?YmiDchYbh]U ≔adUWni	A]h][Uh]cb`AYUgifYg`	A cb]hcf]b[ F Yei]fYaYbhg	:fYeiYbW mi	FYdcfh]b[`	DYfZcfaUbW Y"=bX]WUhcf	F Ygdc bg]V ]`]Imi
Š[&æ¢Á &[{{`}}ãã ^•Á	Ú[c^}cāa¢Á ã;] ã&ææã}•Á [-Á  [&æ¢Á &[{{`}ãc Á *¦[`]•ÈÁ		Ò}•`¦^ÁţÁ•œaà ã;@ •]^&ãã&Á{[}ã[iā]*Á	A o @A ]:[b∿&oA ] @ee•^●A	V[Á Óæŝ}[*}æá { æ}æ*^{ ^}ơÁ	Ó[{] ãæ) &^Á ,ã0@Á 020ÔÁ *`ãâ^ ā) ^•Á a) åÁ ã[] ^{ ^} & cæcã [}Á [-Á &[{ { `}3c Á *¦ã°çæ) &^Á { ^&@e9 ã*{ Á a) åÁÜÒÚÈÁ Þ`{ à^¦Á [-Á *¦ã°çæ) &^•Á a) åÁ cã ^Á cæh ^} Á cĨ ^Á cæh ^} Á cĨ ^Á	

5 gdYWn	?YmiDchYbhjU` =adUWhi	A]h][Uh]cb`AYUgifYg`	Acb]hcf]b[ FYei]fYaYbhg	:fYeiYbW mi	FYdcfh]b[	DYfZcfaUbW Y`=bX]WUhcf	FYgdcbg]V ]`]hmi
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	Ô[{{`}}ãcÁ P^æ¢o@ÉÁ Ùæ^cÂ æ)åÂÛ^&č¦ãcÁ	•Á QŢ][ā] checkô[{ { `}ãĉ Ášãea# [}ÁU ~ 38 ∧ k GÔŠU DÁ, Q, • ∧ A  ^•][} •ãa âțăĉ Á @ett   Ág &  ` å ^ Ác@ Á[ at at at a c ] { * } šĉ Á! ^   æet à Á{ æet !• Á [ ! Ác@ Á] ![ b* & dĂ \@ Á &[ { `} šĉ Á! ^   æet à Á{ æet !• Á [ ! Ác@ Á] ![ b* & dĂ \@ Á ÔŠU Á[   ^ Á @ett   Áde - [ Áa ^ A - ] - ^ & c à âţ Á & A \OÙÚ EĂ • Á Q ]  ^{ { ^} caetă } Á [ - Á at] ] ![] ![ æet Á • ^ & `   ãĉ Á { at	æ¦^æ⁄æí¥i^^&`¦^∕æ)åÁ æ&&^●∮ 㣠,^  Á { [}ã£;¦^åÁ	oÁ c@A ]¦[b∿&oÁ ]@æe^∙Á	V[Á Óæŝ}[ĭ}æÁ { æ}æ*^{ ^} œÁ	Ô[{] ãæ)&^Á ã@Á @2ÔÁ * ã@A ā,^•Á a) åÁ ã] ^{ ^} cæã [}Á [-Á &[{ { }}ãĉÁ *  ã°çæ)&^Á { ^&@e)ã{ A &] âÂQQUÊÁ Þ`{ à^!Á [-Á *  ã°çæ)&^•Á a) åÁ cã ^Á cæa^}Á cã ^Á  ^•[ ç^Á	Ô[}dæ&44[¦Á å`lā)*Á Ô[}•d`&64ā }Á æ)åÁ Óæ}[ĭ}æA å`lā)*Á []^¦ææāj]ÈÁ
Y [ ¦\^¦Á Ô[ { { `}ãc ^∕Á	Šænà[¦Á æ)), åÁ Ƴ[¦\ā]) *Á Ô[}åãoā[}•Á	<ul> <li>Á V@ÁÔ[] dæ&amp;q[!Á; @eļlÁæà ^ÁæļlÁ!^æ; []æà] A, e' (Å</li> <li>A) * /li></ul>	•^•c^{ • Á æh Á ā Å ]  æ&^Á d Á { [ } ãt   Å &[ { ]  ãæ) &^Á ¸ ão@Á  æà [ ¦ Á æ) å A @ æac@Á  æà [ ¦ Á æ) å A @ æac@Á æà å A •æ^c Á •œa) å A •æ^c Á •œa) å æb å • È Á (CE] ] [ ā d ^ } c A [ -Á æ Á { æ} æb ^ ! Å ] Å ā c A t Á à ^ A ! • ] [ } •ãa   ^ A t [ Å ^ } • ` ] a * Á c@æc Á æà [ ¦ Å	]  [ t^&d ] @æ^• Á Á	V[Á Óæê}[*}æÁ {æ}æ*^{ ^}ơÁ	<pre>C@{ ÈÁ Ô[{] ãæ} &amp; &amp; A , ã0@Á Q2ÔA * ãâ^ ā}^• Á æ} åÁ ã[] ^{ ^} cæsã [}A[-Â][\^¦A *!ā°çæ) &amp;^Á { ^&amp;@e) ã{ ÈÁ P`{ à^¦A [-Â *!ā°çæ) &amp;^• Á  ^[!c^åA à^A , [!\^¦•Đ{ ]</pre>	Ô[}dæ&d[¦Á å`¦ā]*Á Ô[}•d`&dā[ }Á æ)jåÁ Óæê}[`}æÁ å`¦ā]*Á []^¦æaā[}ÈĂ

5 gd YWn	?YmiDchYbh]U` =adUWhi	A]h][Uh]cb`AYUgifYg`	Acb]hcf]b[ FYei]fYaYbhg	:fYeiYbW mi	FYdcfh]b[`	DYfZcfaUbW Y"=bX]WUhcf	F Ygdcbg]V ]`]Imi
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5 gd YWhi	?YmiDchYbh]U ≔adUWhi	A]h][Uh]cb`AYUgifYg`	A cb]hcf]b[ F Yei]fYaYbhg	:fYeiYbW mi	FYdcfh]b[	DYfZcfaUbW Y`=bX]WUhcf	F Ygdc bg]V ]`]Imi
E fill I Maña		OZÓEĂOE, [Áãa Áãa Á¦^[&{ { ^} å^åÁq[Áã[] ^{ ^} oÁæ) Á induction program for all workers' resident in the &æ{ ] Áq[Áà^Áæ;æ^^Á[~Ác@ālÁ¦ā*@•ÉÁæ)åÁ•æ^c Á { ^æ•`¦^•ÉÁ					
Œ&@æ^[  [	&[}&^¦}Á&æ)Áà^Á ã[]æ∨Á [}Á	Óæ•^å/ϡ} Á@ ÁŒ&@æ[ [*ææ¢ÅJĭ¦ç^^Á^][¦ơ‰[&ĭ} & & Å -{iÁ c@ Á];[b% & G <b>5DD9B8 ±</b> . 8 DĂ V, [Á { æij Á !^&[{ { ^} åææ]}• Á& ^A[i]][•^åkÁ FD Oā@!^} & ^Áq Ác@ Á];[b% & Aæ Åæ FD Oā@!^} & ^Áq Ác@ Á];[b% & Aæ Åæ][&ææ ^åÁ{i} Aœ ] ![b% & Aæj åA, [ ơA ¢& ^ å Áu Aæj å GD Q] ^{ ^} ææ] Å A fo @æ) & AO3 åA, ![& ^å ` !^ • Áæ Á, ^ ! c@ ÁR[ !åæ] æ) Á04; cã ` ãæ • ÁSæ; EA @æ Æ Åa ^ a & a & a c@ AR[ !åæ] æ) Á04; cã ` ãæ • ÁSæ; EA @æ Æ Åa ^ a & a & a c@ AR[ !åæ] æ) Á04; cã ` ãæ • ÁSæ; EA @æ Æ Åa ^ a & a & a c@ AR[ !åæ] æ) Á04; cã ` ãæ • ÁSæ; EA @æ Æ Åa ^ a & a & a c@ AR[ !åæ] æ) Á04; cã ` ãæ • ÁSæ; EA @æ Æ Åa & a & a c@ AR[ !åæ] æ) Á04; cã ` ãæ • A & a & a & a c@ AR[ !åæ] æ & & ic i æ] ^ Å • & a & a & a & a e { 1   [, • K • Ô[ } • d` & ca] } Á, [ !\ • Á • @æ A & A& & a & a & a & a e { 1   [, • K • Ô[ } • d` & ca] } Á, [ :\ • Á • @æ A & A& & a & a & a & a e { 1 & a & a & a & a & a & a & a & a & a &	<ul> <li>ãc<sup>A</sup>Á āj •] ^&amp;cāj }</li> <li>ãj { ^åãæc^ ^</li> <li>æc^!Á &amp;@ej &amp;^</li> <li>-āj åÈ</li> <li>Q-{ !{ āj*</li> <li>^!•[ } ^ </li> <li>!^•^ &gt; cÁ[ } Á•ãc^</li> <li>[ -Á&amp;@ej &amp;^ A-āj å</li> <li>] ![ &amp;^å` !^• Á āj</li> <li>&amp;æ• ^ Á æ)^</li> <li>æ&amp;@ec^[ [[ * ã&amp;eaj</li> <li>[ !Á &amp;`  č !æj</li> <li>!^•[ ` !&amp;^• Á_ ^!^</li> <li>^ &amp; &amp;[ ` ] &amp;^ A, *!^</li> </ul>	U}^Á •ãơA ĝ•]^&cąį}Á æơ°¦Á &@æ}&^Á -ðjåÁ	-		ÒÚÔÁ Ô[}dæ&q¦Á

5 gd YWh	?YmiDchYbh]U` =adUWhi	A]h][Uh]cb`AYUgifYg`	Acb]hcf]b[ FYei]fYaYbhg	:fYeiYbW mi	FYdcfh]b[`	DYfZcfaUbW Y"=bX]WUhcf	F Ygdc bg]V ]`]Imi
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		À Óæê } [`}æÁ @æq Á^{] [ À ^]\&ãæqā ^åAj,^¦•[}}^A d[Á;ç+¦-^^Áæg)åÁ^i [`jkçãi ^Ác@Áā[]  ^{ ^} cæeāj} À (āzētā aeāj Â; ^æ^ ¦^•ÈĂ					

#### HUV`Y`&`9bj]fcbaYbHJ`UbX`GcVJU`AUbU[YaYbhD`Ub`Xif]b[`CdYfUf]cb`D\UgY`

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D\mg]WU <sup>™</sup> 9bj	]fcba Ybhï						
Ù[ đÁ	Ú[c^}cãaa‡Á •]ā æ*^Á[~Á •d[¦^åÁ [ā¦Á æ}åÁ &@{ 38æa‡•Á	À\ JÀ&^ [ ] ^q^&A^&A^@================================	À (-Aig) A/A à ã c' là A a A a A a A à A a A a A a A a A à A a A a A a A à A a A a A a A A A A A A A A A A A A A A	Á Á Á Ý ^^\  ^ Á Á	V[Á developer's ﴿]Á {æ}æ*^{^}oÁ	Tæ3i cæ3i Á ¦^æåãi Á æçæ3iæai ^Á ¦^&[¦&•Á[-Áæ¢ Á , [¦\^¦•Á dæ3i ā]*Á [}Á •]ā Á^•][}•^Á ]¦[&^åč¦^•ÈX	]¦^ąį̃åÁuÁæ);åÁ UBTÁ
Xãar≚æ¢Á OĘt,^}ãĉÁ	Ú[ơ^}cã#dÁ * æb^Á -¦[{Á ÚXÁj,æ),^ ∙`	V@:Á`•^åÁc^&@;[ [*^Á@ee-ÁCE;caËÄÜ^-∤^&caã;^Á &[aæ3;*Á co2eecÁ •ãt}ãa38aaa)q^Á ¦^å`&^Á co0:Á ¦^-^ ^&caã;ãĉÁ[-Áco2:ÁÚXÁÚaa}^ •Áæe-Á^ aaaa[¦aae^åÁ `}å^¦Ár^&caã;}ÁJÈCÈÈÈÉÁÁXãa`aa,ÁCE;^}ãĉÁs`¦3]*Á U]^¦aæaã;}ÁÚ@ae^ÈÁ	ÞÐÆ	ÞÐÐÁ	ÞÐÐÁ	ÞÐÐÁ	ÒÚÔÁ Ô[}dæ&q[¦Á å`¦ā)*Á æ}¦æ)c´Á ]¦^ā[åÁv&aa)åÁ UBTÁ Ô[}dæ&q[¦Á å`¦ā)*Á

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Υæ•৫ Υæ•৫ Τæ}æ*^{ ^}ά	Ú[ ¢} œ́#Á	<ul> <li>Ú![b/&amp;có/á^ç^ []^!Á, āļÁ&amp;[}•d`&amp;có/æá+{ æļ</li> <li>&amp;æd^Á, æ.e., æe'!Á:(^æ:(^) có, æ) có, æ) có, Y VÚD</li> <li>(fÁc^æé/á[{ ^•c3&amp;Á, æ.e., æe'!Áæ) åÁ ã šã</li> <li>~-,`^) cÁ*^}^!æe'åÁ -{[{ Á•ãe'A æ&amp;cā;ãæ}•Ê</li> <li>(fa^o A æ) åÁ •æ) ãææā; }Á -æ&amp;ajãæ?•A åš'; a;</li> <li>[]^!ææā; &gt;Á] @æ•AÊ4c^æ:(^) có,  æ;</li> <li>@æļÁ; ^^có,  æ;</li> <li>A) cá+`] aæá; A; ['åæ) æ; Aùcæ) åæå*È</li> </ul>	<ul> <li>T[]ãt[!ā]*</li> <li>c@</li> <li>, æe c^, æe^!</li> <li>^i^^}c</li> <li>~æãč ([Á</li> <li>&amp;[{] ^ c@Á</li> <li>&amp;[{] ^ c@Á</li> <li>R[!åæjãæj</li> <li>cæjåæsåÈ</li> <li>Ø!^~`^}c</li> <li>Ùæ{] ā]*Á [~</li> <li>ā]-i^^}oÁæjå</li> <li>c@Ác^æa(æ)c</li> <li>] æ)cÈ</li> </ul>		V[Á developer's d[]Á {æ}æ*^{^}óÁ	Ô[{] ājæ) & ^Á ,ão@Á¦^ ^çæ) o⁄A R[¦åæ) ãæ) Á Ùœ) åæ3å•Á ÇRÙÁ ÌJHOEEÊDÁ Ü^& æat ^åÁ Ö[{^•cæA Yæ•c,æc\	
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Óæ?}[`}æ¥Ù[|æ4ÁÒ}^!\*^ÁÚÙÔÁ(the "Project Company")Á-Á, @38.@46a Á(, }^åÁŒa`ÁÖ@æaàáAZ`c`!^Á Ò}^!\*^ÁÔ[{] aa)^ÁÚRÙÔÁ.ÁT aæ åæbÉbájc^}å•Á{[Áå^ç^|[]ÁaÁĐE€ET Y æ&Á ¦ãá.Á&[}}^&c^åÁÁ(@[d[ç[|cæa&A ] ¦[b^&cÁ, ão@3)ÁT`, æ`æ Áæa^æábjÁŒ{ { aa) ĚÁ/@(Á, ¦[b^&cA@æe Áa^^}Áæa]] ¦[ç^åÁa^Áæa|Áæč c@[¦ãæ3)•Á, Á &[}&\;}Ábj&|`åā]\*ÁTājã c'Á(Á)^!\*^Áæa)åÁTāj^¦æ4ÄÜ^•[`¦&^•ÁÇT ÒT ÜDÁÁÁ

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QÁzz88[ ¦åæ) ce with MoEnv's requirements, the ESIA assignment will consist of the following ] @e^ ► KÁ

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- •Á Ùĭ]][¦óÁc@/Ácel]]a8æeaa1}Áf¦Á^}çã[}{ ^}cæ4Áeel]¦[çæ4Á+[{ Ác@/ÁTā;a°d^/Á[,ÁÒ}çã[}{ ^}cÅ (MoEnv.) in line with the Environmental Impact Assessment ("EIA") Regulation No. 37 -{¦Á^æ¦ÁG€€Í ÈÁ

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Baynouna Solar Energy PSC (the "Project Company") – Á @3&@4a Á, }^åÁOa ÁÖ@eà áØ č !^Á Ò} ^ ! \* ^ ÁÔ[ { ] æ} ^ ÁÚRÙÔÁ-ÁT æ åæ Áã Áœ ÁÚ![ ] [ } ^} ơÁ[ ¦Áœ Á] ![ ] [ • ^ å ÁÙ[ |æ ÁÚ[ . ^¦ÁÚ|æ) ơÁ Project. The contact details for the proponent's primary contacts are provided below ká

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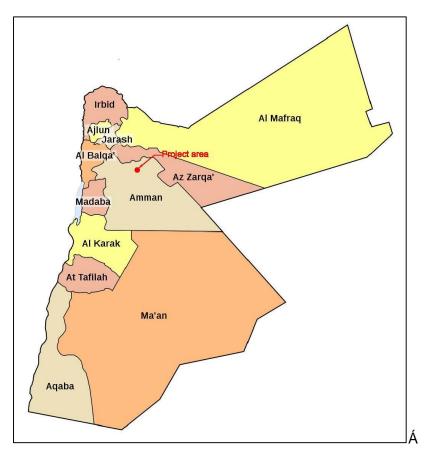
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FYj]Yk cZ @Y[]g`Uh]cb UbX`GHUbXUFXg''	Ö^ تحظَّه ﴿مَرَحَظُهُ اللَّهِ الْمَعْطَةُ ] المَعْجَعَةُ إِلَّمَ الْمَعْمَ الْمَعَةُ الْمَعَانَ المَعَان أ • تعط) مُعطَّف ﴿مَهَا لَجَرَا الْمُعْطَى ﴿ مَنْ عَظَمُ [ تَأَكَ الْمَعَظِمَةِ ] المَعْجَعَةُ إِنَّ الْمُعَان مُ	
Dfc <b>^YW</b> i8YgW]dh]cb <sup>*</sup>	CEÁ& ^æhÁæ) åÁ&[}&æi^^Áa^•&¦a]ca[}Á; Áá á&ã-^¦^}o∱æ&caçãaã*•Á;ç^¦Ác@∘Á  ã^Á;Áœ?Á;¦[b%&cEÁ/@:Áa^•&¦a]ca[}Á:@(` åÁa^Á*`~a&æ}}oÁ[Áæ][_`Á c@:Áã`\•Áæ) åÁa[]æ∨Áa[Áa^Áaa^}cãæ?àEãa^•&¦ãa^åÁæ) åÁçæ ĭæe^åÁ	
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5ggYgga YbhcZ=adUWfg	OE•^••{ ^} cÁ[ -Ác@ Áā[ ] æ&o Á[ -Ác@ Á] ¦[b/&cÁQa) å Á[ ^c@ å[ [* ^ Á `•^åDÉÁ_ @3&@4 @ed Á3] & ` å^ÁceÁ[ā cā] * ÉÁå^•&¦ā] cā[ } ÉÁæ••^••{ ^} cÁ GāJ & ` åāJ * Á`` æ) cã a38æaā[ } Á[ -Áā[ ] æ&dDÉÁæ) å Áåã &` ••ā[ } Á[ -Ác@ Á ][••āa ^Á] ^* æaãç^Áca) å Á] [•ãtãç^Áā[ ] æ&o Á[ -Ác@ Á] ¦[b/&cÁ[ } Ác@ Á ^} çā[ } { ^} cÁæ) å Á•[ &ãtā¢Á -æa) ¦3&EÁ ā] & ` åāJ * Á•[ &á[ È'&[ } [ { 3&A &[ } c^¢cÁ-Á5] Áseá åãtā[ } Á5[ Á&[ } •ãtá^ !æaā] } Á[ -Á&č { `  æaãç^ /Á5[ ] æ&o ÉÁ	
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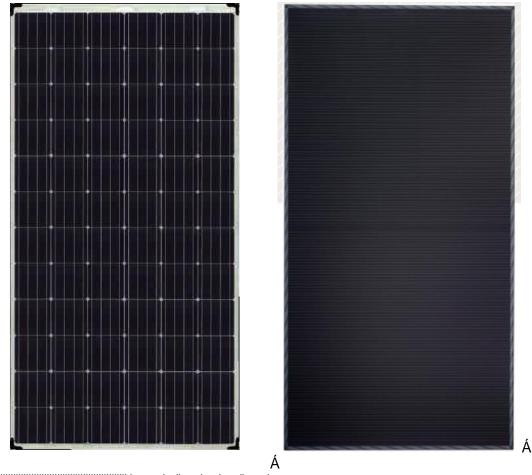
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V@ Árāč Áña Á[8ææ°åÁn[Áç^¦^Á&µ[•^Án[ár¢āroā]\*Á}}æ{ ^åÁ[æåÁ9][čo@Á-Á,^•ó48[¦}^¦Á, Árô@ Árāč DĚÁ V@ Áæ&&^••Án[Ác@ Á•ãcÁ,ā]Å(à^Á)]¦[çãa^åÁà^Á8]}•dč &oaj\*Áæ]]¦[¢ā[ææ^|^Á)Å{ (Á,ãa^A![æåÁ 8[}}^&oaj\*ÁrãcÁ,ãn@Ár¢āroā]\*Á}}æ{ ^åÁ[æåÈŽV@ Ár}\*ooa∱. Á\* &@Áse&&^••Á[æåÆs Á\*•oā]æc\*åÁr••Á coæ}Ár€4(kæ)åÁ,ā]A\*]][¦cAt€kokç^@&Ar^•ÁseA]^^åÁr.AkLÁLÁ (Æ4;æå]^k&z\*j]\*&z\*j]\*&z\*j

Ùā[ā]æel/Ê£5]c^l}ædA[æå•Á]ā]Aá^Áàčā]cÁ]ão@3)ÁÚl[b/8.cóAãc^Át[Á]![çãā^Áæ888^••Át[á]![çãā^Áæ888^••Át[á]] [At[Áčà•cæeā]}ÊÁ ā]ç^lc'lÁ(æeā]}•ÈÀÙč&@45]c'l}ædA[æå•Á]![çãā^Áæ884^••Át[Á]![b/8.có&t[{][}^}o/Åæ84\\*•Át[á]\*[] æðjåÁ[æā]c^}æð}8^Á[~Ás@ÁÚl[b/8.cbŽQ)c^l}ædA[æå∮ā]Á@æç^Áæ4,ãac@4ed]]![¢ā[æɛ^|^Á ÉLÁ[ÈA/@Ás^cæājÁ å^•ā]Åå^c^l{ 3]^•Ás@ÁJ=24A[æ4A]^8ãa8æaā]}Át]Á[æåÅa^æaā]eĚÁ

## ''('(`IbXYf[fcibX`WUV`Y`HfYbWtYg`

Ôæà|^•Á,ão@a),Ás@ Á,ão^ÉĂ, æaj, |^ÁT XÁDĚÔ/&æà|^•Áse),åAS[{ { `}}38ææaj,}}ASæà|^•Á,ã|Aso^Á `ãa^åA[¦Ás@ā!Á ¦^•]^&caç^ÁS[}}^&coaf,Ás@A\$\åo^!\*¦[`}åÁs'}&@•ĚA'@Aso]coafse),åÅ,ãacoaf,Ás@Aso^}&@eAso]^}à•Á `][}Ác@Ác`]^Á[-ÁSæà|^ÉA}`{ à^¦Á[-ÁSæà|^•Á,ão@aj,Ác@Ád^}&oafA`&AsoAs),ä|Aà^Áå^co';{ ā}^åÁ å`¦āj\*Ás^cæaj^åÁs^•ã}}ĚÁ

## ''(')`7]j]`Kcf\_'2cf`8fU]bU[Y`GmghYa`

V@Áãc^Á&[}œaāj•Á¢ācāj\*Á, æåã ÁæjåÁ, æc²¦Á&@eðj}^|•ÈV@ÁÚ![b\*&oÁæĉ[čóÆiÁå∧•ã}}^åÁājÁ`&@ÁæÁ , æ Ás@æeÁ@Aåãčč¦àæ)&^Áţ}Á¢ãcāj\*Á{[, Á; Ás@Ád^æ{ ÆiÁ^![Á{ 4; ājãţ`{ ÈQAÁ[{ ^Áæ}^æÊa@A ] ![b\*&oÁ{ æÂ^č`ã^Aåãç^!•ãţ}Aţ, Á\*¢ãcāj\*Á\*d^æ{ ÁæjåÁājÁ\*[{ ^ÁæAœÊa@Aj ![]^!Á\*![`cāj\*Á{ æÊ à^Á^`čā^åÁājÁţ!å^!Á§[Á`ãâ^Ás@Á, æc²¦Á{[, Áş]Á¢ãcāj\*Ád^æ{ ÁæjåÁājÁ\*[{ ^ÁæAœÊa@Aj ![]^!Á\*![`cāj\*Á{ æĉ à^Á^`čā^åÁājÁţ!å^!Á§[Á`ãâ^Ás@Á, æc²¦Á{[, Áş]Á¢ãcāj\*Ád^æ{ ÁæjåÁājÁ\*[{ ^ÁæAœÊaœÂ a²Á^`čā^åAājÁţ!å^!á²]Aåá@Aj Aze?!Á -{[, āj\*Áāj•ãâ^Ác@Á] |æjdÊ4\*•]^&ãædţîÁåč;lāj\*Áæãāj^Á\*^æe[}ÈÁV@Áå^œaājÁ&ãçājÁ, [ !\Á, āļÁà^Áå[}^Á æ&&[¦åāj\*Á¢áx@Á^&[{ { ^}åææāj}Á4:[{ Á@å![ |[\*ãæd¢Áčå^Â&çåAk[}åč&cåAk[;Åx@ÁU![b\*&dĚká

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Òæ&@Á9jç^¦c^¦Á&æàãjÁ,ã∥Á,[cÁ@æç^Á{[č}åææã]}Á([¦^Ás@æ),Áæ]]¦[¢ÈÁG€Á(ÁEÁÁ,Á

Ô[}d[|Á[[{ Á, ã||Á, [ cÁ@æç,^Á[ ̆ } åææãį})Á( [ ¦^Ás@æ), Áæ]] ¦[¢ÈÁi, €Á(, ÁEÁO€{ Á

Ùd[¦æ\*^Áæ&ãjãĉÁ{[`}åæaāj}}Á;[ơ4\[[¦^Ás@aa)Áæ]]¦[¢ājæe^\^Ái€A;ÁEÁ+€A;Á

## ''(''+`7]j]`Kcf\_`Zcf`giVgHUh]cbžGYWif]hmiGmghYa`UbX`ch\Yfg`

V@:Á,¦[b^&oA,ā|Ása;+=[Á^˘˘ã^Á&ãçā)Á,[¦\●Á{¦Á čà•cæaā;}}ÊA^&č¦ãĉÁ^•c^{{ÁÇ3}•cæ;|æaā;}Á(,~Á^}&^•DĚÁ V@ērÁ(æ?Á§)&|ĭå^Áæa;)åÁ&|^æ÷j3\*ÉA^ç^||ā]\*ÊA¢&æçæaā;}●Á\*c&ÈÁ

 $\ddot{O} \ \ \ \ddot{A} \ \ \dot{A} \$ 

## ' ") <sup>·</sup>K cf\_ZcfW

V@^Á;`{ à^¦Á[,~Á],^æàÁ&[}•d`&aā[}Á],^¦•[}}^|Áå`¦ā]\*Á&[}•d`&aā[}Á],@æ•^Áæ);åÁ[]^¦ææā[}Á],@æ•^Á ã:Á@æååÁ[,Á•aā[;æ&^ÁæaÁ@ã:Á],@æ•^ÈÁ/@ã:Áã;Áæ]+[Á@ãt@[,Á&^]^}å^}a^}oÁ][}Á@@~Áæ]]¦[æ&@Áœæá,ā]|Áà^Á &[}•ãå^¦^åÁa`Á@^ÁÒÚÔÁ&[}dæ&d[;ÈÁ

O E Ácaj Á ∿ • cāj æ c^Éźo@ Á j ∧ æ Á j `{à^¦ Á j ^/ •[}}^| Á j á æ á ků `¦āj \* ÁS[} • d ` & cāj } Á & æ j \* A ´Ĭ ] Á ť Á H∈€ĚĂP[, ^c^¦ Á ` & @Á j `{à^\• Áœ ^ Á f c^' ¢] ^ & c^ a Å [ ¦ Áœ j Á áŭ `¦āj \* ÁS[} • d ` & cāj } Á j @ æ ^ ĚŹU ^ æ Á &[} • d ` & cāj } Á & æ j Å à^ ^ ¢ ] ^ & c^ a Å F€ËFGÁ { [ } c@ Á -{ | Á c@ Á Ú ¦ [ b & dĚ \ @ • ^ ÁU ^ | • [ } } ^ | Á j & a ^ A ^} \* āj ^^ !• Êž •] ^ & ãæ tá œ fĚ j ![ b & cÁ j æ to ^ ¦ Áæ j å Á ' ] !^ • ^ } cæ ã ĵ ^ Ež • ] ] |ā^ !• Áæ Á \_ | Áæ Á `} • \ āj ^ å Á &[ } • d ` & cāj } Á [ | \ ^ !• ÉĂ

Ö`¦āj\*Á;]^¦ææaţ}É£J,^æàÁ;`{à^¦Á[~Á]^¦•[}}^|Á;}Áráo^Á&æjÁà^Á£J,ÁœÁ;æj\*^Á`]Á;[Á!€Á&[}•ãå^¦āj\*Á c@Árã^Á;Á@ÁÚ¦[b^&dÈÁ/@Áæç^¦æ\*^Á;`{à^¦Á[•[}}^|Áš`¦āj\*Á;]^¦ææaţ}Åæ}åÁ;ææaţA; &æajÁà^Áà^ç,^^}ÁGEÁæ}åÁHEÁ;[¦ÁGEÁ^æèA;Á]^¦ææaţ}ÅA;\atabeva;AjA;]^¦ææaţ}ÅA;\atabeva;AjA;]^¦ææaţ}ÅA;AjA; &æ Á[]^¦ææ[¦•ÊÁ^|^&d`a&æa‡Áæ}åÁ; ^&@æaja&æa‡Ác^&@ja&ãæaj•ÊÆæajåÁ`}•\atah^åÁjæà[¦Á\*`&@Áæ Á;[å`|^Á &µ^æ}^¦ÉA^&`¦ãčÁ;^!•[}}^|Á\*\&EÁ

Ö` ¦ā) \* Á&[ } • d` & cāţ } ÉÅ, [ !\ ^! • Á, āļ|Áļā ^| ´ Áà^ Áæ&&[ { { [ åææ^ å Áā] Ác@ Á} ^æ^ • óÁæ&&[ { { [ åææ‡] } Á -æ&ājātā • ÁŁ[ Ác@ Á āc^ ÁÇ] [ • • āa | ^Å5] ÁCE { @ Ása) å Á ` ; ![ ` } å ā] \* DÁsa) å Á, āļ|Áa^ Á, i [ çãa^ å Á, ão@Á, ^æ) • Á, -Á dæ) • ] [ ¦cææā] } ÁŁ[ Ác@ Á ãc^ ÉŽP[ , ^c^ ¦ Á, [ !\ ^! Ásæ&&[ { { [ åææā] } Å] ] cāt } • Ásd^ A cāļ|Áa^ ā] \* Á\*c] |[ !^ å ĚČAÁ c@ Á, ![ b\* 8c4] ] c^ å ÁŁ[ Ás] & [ ` a^ Á, [ !\ ^! Ásæ&&[ { { [ åææā] } Á] ] cāt } • Ásd^ A cāļ|Áa^ ā] \* Á\*c] |[ !^ å ĚČAÁ c@ Á, ![ b\* 8c4] ] c^ å ÁŁ[ Ás] & [` a^ Á, [ !\ ^! Ásæ&&[ { { [ åææā] } Ázæåājātā • Á; Å áā^ É&@ • ^ Á cāļ|Áa^ Å • cæà jā @ å Á c@ Á, ![ b\* 8c4] ] c^ å ÁŁ[ Ás] & [` a^ Á, [ !\ ^! Ásæ&&[ { { [ åææā] } Áæ&ajātā • Á; Å áā^ É&@ • ^ Á cāļ|Áa^ Å • cæà jā @ å Á c@ Á, ![ b\* 8c4] ] c^ å ÁŁ[ Ás] & [` a^ A, [ !\ ^! Ásæ&&[ { { [ åææā] } Áæ&ajātā • Á; Å áā^ É&@ • ^ Á cāļ|Áa^ Å • cæà jā @ å Á c@ Á, ![ b\* 8c4] ] c^ å ÁŁ[ Ás] & [` a^ A, [ !\ ^! Ásæ&&[ { { [ åææā] } Áæ&ajātā • Á; Å áā^ É&@ • ^ Á cāļ|Áa^ Å • cæà jā @ å Á c@ Á, ![ b\* 8c4] ] c^ å ÁŁ[ Áse] & [` a^ A, [ !\ ^! Ásæ&&[ { { [ åææā] } æá&aaaa • Á] } Áæ&ajāta • Á; Å áæ É&@ • ^ Á cād|Áa^ Å • cæà jā @ å Á aj Ásæ&&[ ! å æa & ^ Á, š ao@á@ Á] ^ &ãaæaaaa } • Á; Á@ ÁQD C^! } æaaaaa \* Á aj å á æaaaa & ^ Á, ` à jā @ å áa ^ &OOÜÖ Áse} å Á@DÔÁse å A @edel Ásea @ !^ Á&[ Ásed|Á; ^ æ\*` !^ • Á, ^ å^ å å Æ[ Á; !^ c^ } c^ ] [ c\* } cãæd4 & & `] æaaaa } æaaa • Á; } Á ãa ČÉÁ

$$\begin{split} \tilde{S}_{aba}[ | Asaet] \bullet \hat{A} \} & \tilde{A} \tilde{a}^{A} \tilde{a} | Asa^{A} \\ \tilde{A} \bullet cee|^{a} Asaet] | asa^{A} \tilde{A} & \tilde{A} \\ \tilde{a} = A & \tilde{A} \\ \tilde{a} =$$

## ' '\* '**=a d`Ya YbhUhj**cb'GW YXi `Y''

#### <u>CjYfj]Yk cZDfc^YWhD\UgYg.</u>

D`Ubb]b[ 'UbX'8 Yg][ b'D\ UgYkÁ/^ ] ã&æ‡/æ&cãçãa?• Á§ &|` å^• kÁ

Á •Á Áājæjāæaāj}Áj~ÁÚ¦[b^&oAj^\{ão•Éæj]]¦[çæ)ÉÅjk][b^&oAjæko]^\•É&s^•ãt}•Á^o&ÈÁ

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- ËÄ 7 cbghfiWFjcb<sup>·</sup>UbX<sup>·</sup>7 caa]gg]cb]b[<sup>·</sup>D\UgYkÁ⁄<sup>^</sup>]ã&æ‡Áæ&cāçãaã∿•Á§&|ĭå^kÁ
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- ËÄ CclYfUhjcb`D\UgY.Á/^]ã&aqÁæ&cãçãaã∿•Á§&|ĭå^kÁ
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•Á Ô[¦¦^&@aç^Á; æaj ơ}æ)&^Áj Á&æ•^Á; Á&~^&o/; ¦Áæaj`¦^Á; Á&[{][}^} œÈÁ

 $\label{eq:2.1} V@\acute{A}UV`Y'(\acute{A}a^{[},\acute{A}`{ { adia ^{•} \acute{A}@ \acute{A}c]^{}} & ac^a\acute{A}U'_{[b' & co' & a']} & ac^a &$ 

A]`YghcbY'	91 dYWYX GHJFh8 UHY	9IdYWAYX`DYf]cX`
Ô[}•d`&aặ[}ÁÚ@æ•^Á	Q[ĭ¦c@ÁÛĭæ¦c∕¦ÁŒFÏÁ	FŒŒ€Á{ [ } c@ Áå^] ^} åậ * Á` ] [ } ÁÒÚÔÁ contractor's capabilityÁ

#### HUV`Y`(.`Dfc^YWii=ad`YaYbHUfjcb`GW(YXi`Y`

A]`YghcbY'	91 dYWNYX GHUFH8 UNY	9IdYWAYX`DYf]cX`
Q;c^¦&[}}^&cāį}Á	Ù^&[}åÁÛĭæ⊧d∿¦ÁG€FJÁ	Á
Ô[{{ã•ã]}ĝ*Á	Ù^&[}åÁÛĭæ¦c^¦ÁG€FJÁ	FËHÁ,[}c@A
U]^¦æa‡į}Á	ËÁ	Tājā[`{Á G€Á ^^æsl•Á æve^\¦Á o@eÁ &[{{ãi•āj}āj*Á

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# ('%FYYjUbh9bj]fcbaYbhU!FYUhYX`=bgh]hih]cbg`

O EÁ+ ^ |^ & Call } Á [ حÁc@ Á ( عظه ÁT ā) ār clāt • EÁQ • cãč cāl } • Áza) å ÁO E cou ¦ãu at • Ác@ عص Ázi Ååā ^ & d` Á' ما يعت à Ád ( Á ^} çã [ } { ^} cza/ آف \* ` ^ • Ázd ^ Áze Á [ || [ ، • KÁ

## ('%%A]b]ghfmcZ9bj]fcbaYbhi

 $\begin{array}{l} \mathsf{MoEnv} \ \mathsf{was} \ \mathsf{established} \ in \ 2003, \ \mathsf{and} \ \mathsf{its} \ \mathsf{mission} \ \mathsf{is} \ \mathsf{maintaining} \ \mathsf{and} \ \mathsf{improving} \ \mathsf{Jordan's} \\ & \wedge \ \mathsf{cal}  

$$\begin{split} & \bigvee (\hat{A} \otimes \hat{A} \otimes \hat{A}) = \hat{A} \otimes \hat{A}$$

$$\begin{split} & \check{A}_{i} \left[ \check{E}_{A} \check{A}_{i} \right] \left[ \check{C}_{a}^{a} \wedge \bullet \acute{A}_{O} \check{A}_{i} \right] \check{A}_{i} \check{A}_{i} \check{A}_{i} \check{A}_{i} \check{A}_{i} \dot{A}_{i} \dot{A}$$

*Á*ÍÔÙQËËZĘ] æ∳ÁÜ^] [ ¦ơÁĬ

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ÁOB&&[¦åā]\*Ád[Ác@ÁÒ}çā[}{ ^} cæ¢ÁÚ¦[c^&cā]}ÁŠæç ÉÁc@ÁÒQDÉ+čå^Á+@[`|åÁà^Áå[}^Áà^-{¦^Ác@Á ]¦[b^&cÁā;Áā]āñanee^åÁæ}åÁ+?oÁt[Ác@ÁT]ājā d^Á;~ÁÒ}çã[}{ ^}c^Åj@!^ÁñaÁ;āļ|Áà^ÁA^çã\\_^åÈÁÚ|^æ^Á !^~'¦Át[ÁÔQDEÁÜ^\*`|æaā]}ÁÞ[ÈÁC;HIDÁDÁ^æ}ÁGEEÍÁ&|æ•ããt•Á;¦[b^&crÁājd[Ác@^^Á&æe^\*[¦ãt•Áa&&&[¦åāj\*Á d[Ác@ālÁ}}çã[]{ ^}cæ¢Át]]æstorkÁ

- Á 7 UhY[cfmi% ÁÚ¦[b% er Á cœecá ^ ~ ǎ ^ Á&[{] \^@} ã ç^ ÁÒ QEÁ
- Á 7 UhY[cfm&. ÁÚ¦[b% & o Ás@æá^~~ ǎ ā^ ÁÚÒOEÁ
- Á 7 Uhm/[ cfm' . Á Úrojects that don't require an EQDÉA

$$\begin{split} & \dot{\Delta} = \frac{1}{2} \left[ \left[ \right] \right] + \frac{1}{2} \left[ \left[ \right] + \frac{1}{2} \left[ \right] + \frac{1}{2} \left[ \left[ \right] + \frac{1}{2} \left[ \left] + \frac{1}{2} \left[ \right] + \frac{1}{2} \left[ \right] + \frac{1}{2} \left[ \left] + \frac{1}{2} \left[ \right] + \frac{1}{2} \left[ \right] + \frac{1}{2} \left[ \left] + \frac{1}$$

QÁo@ Áā[] ﷺ (^> مَعْهُ أَحْظَ) الإ دِمْهُ لَحْظَ) الإ دِمْهُ لَحْظَ مَعْهُ مَعْهُ اللَّهُ مَعْهُ مَعْهُ مُعَامًا اللَّهُ اللَّهُ مَعْهُ مَعْهُ مَعْهُ مَعْهُ مَعْهُ مَعْهُ مَعْهُ مُعَامًا اللَّهُ مَعْهُ مُعْهُ مُعْمُ مُعْهُ ُ مُعْهُ مُعُمُ مُعْهُ مُعُمُوا مُعْهُ مُعُمُ مُعْهُ مُعُمُ مُعْهُ مُعْهُ مُعْهُ مُعْهُ مُعْهُ مُعْهُ مُعُمُوا مُعْهُ مُعُمُوا مُعْهُ مُعُ عَلَمُ مُعَالًا مُعَمْهُ مُعْهُ مُعُمُ مُع وَعُمُعُمُ مُعُمُوا مُعَامًا مُ

## ('%'&`9=5`FY[i`Uh]cb`]b`>cfXUb`

Œec^¦Áx@AÛ&[]ā]\*AÛ^••ā[}Ê£0ERAi`à{ãac^åÁa summary of the scoping session's discussionsÁæ)åÁ å^|ãa^¦æaā[}•ÁæAj ^||ÁæÁæáa ofi, -Á@Aj ælcā?•Đicæà^@[|å^¦•Áj @[Áææc^}å^åÊææjåÅ@AA^^Áas•`^•Aj Á &[}&^!}E&[{ { ^} or Áx@æcý, ^¦^Áæãa^åÁaš`¦ā]\*Áx@Ai^••ā[}Aj \$ Aj &[]ā]\*Ái^••ā[}Á^][¦oÁ-Áj ¦[çãa^åÁæA

5 DD9 B8 ± 5 [ -Ác@á ÁÒÙQEÁ'^] [ ¦dEÁ, @3&@Á, æ Ác@} Áæææ&@ åÁq Ác@ Á2āj æjÁÒÙQEÁV^¦ { •Á[ -Á Ü^-^\^} & ÁçV[ ÜDÁæj åÁ•`à { ãæ åÁq ÁT [ Ò} çÈÁV @ Á2āj æjÁV[ ÜÁ, æ Á'^çā`, ^åÁà`Ác@ Ác& &@ 3&æjÁ &[ { ãæ ^Áæ£ác@ ÁT [ Ò} çÁ, @3&@Á, ājÁ{ æ ^Á\^&[ { { } å ææāj } •Áq Ác@ Á] ¦[ b & Aôå^ç^|[] ^¦ÁÇāÁ å^{ { ^ åÁj ^& • • æ DĚÆ£œ ÁT āj ã c'¦Áæj ] ¦[ ç^•Ác@ Á2āj æjÁV[ ÜÁ; -Ác@ Á] ¦[ b & Aôå^ç^|[] ^¦ÁÇāÁ å^{ { ^ åÁj ^& • • æ DĚÆ£œ ÁT āj ã c'¦Áæj ] ¦[ ç^•Ác@ Á2āj æjÁV[ ÜÁ; -Ác@ Á] ¦[ b & Aôå^c¢ Å] ¦[ b & Aôå å^ { ^ åÁj ^& • • æ DĚÆ£œ ÁT āj ã c'¦Áæj ] ¦[ ç^•Ác@ Á2āj æjÁV[ ÜÁ; -Ác@ Á] ¦[ b & Aôà^c¢ Å] ¦[ b & Aôå å^ c^|[] ^¦Á @etjÁæåçã ^Á@ Á&[ } • ` | æ) ó& æ á Áş Áş ¦A; ^] æ ^ Á@ Áa æaāj ` aó ÂDÙQEÉå[ & { ^} dÉaz[ ¦Áœā Á ] ¦[ b & dÉac@ Ázāj æjÁV[ ÜÁæj åÁÙ&[ ] āj \* ÁÜ^] [ ¦cÁ; ^¦^Áæ] ] ¦[ ç^ å Áà` Ác@ ÁT [ Ò} çÁ]; Áz^ à]` æ ^ ÁFÍ @Á GEFÏ ÁçãæÁæj Á; -æãæ¢Áæj ] ¦[ çæjÁ^œ 'ÁQü^ -ĚÅp [ È É) EFI GEDEÁÁ

Á

Ü^|^çæ); cÁq[Ác@a;Á] ¦[b\*&cÁæ); åÁ`][}Á•`à{ã•ą]}Á[-Ác@:ÁÖ¦æcÁÒÙQDEÃc@:ÁMo Env's technical &[{{ãuc^^Á, a]|Áà^Á',•][}•ãa|^Á-{¦Á'^çã}, EÁQÁc@:Áå[&`{ ^}cÁ-`|-a]+Ác@:Á'^``ã^{ ^}; o•Á[-Ác@a;Á ¦^\*`|æaa]}E&@}Ás@:ÁÒÙQDEÁ, a]|Áà^Á&[}•ãa^¦^åÁs@:Áa]; æ4áb[&`{ ^}dEÁ

 $V @ Aa^ & a_{1} A^{a} a_{1} A^{a} a_{1} A^{a} a_{1} A^{a} a_{2} A^{a} a_{1} A^{a} a_{2} B^{a} A^{a} A^{a} A^{a} A^{a} B^{a} A^{a}  

# ("& Ch Yf F Y Yj UbhA ]b]ghf]Yg UbX'; cj Yfba YbhU 9 bh]h]Yg

## ("&"%A]b]ghfmcZ9bYf[mUbX`A]bYfU`FYgcifWg`fA9AFŁ`

V@ Ápæč ¦æļÁÜ^•[č ¦&^•ÁŒ c@ ¦ãĉ ÁÇÞÜOÐÁ, æ Á•œài|ã @ å Áşi Á∓JÎ Í ÉÁQ Á∓JÎ Ì Áæ; Á,č { à^¦Á∓GÁ, æ Á ¦æãã à Á{[Á/\*č |æ¢ Áæ• •É4/•][} •ãa ājãã •Áæ) å Á{ æ) æ\* ^{{ }} o Á; ÁÞÜOĐÉÞÜOÐÁ, æ Á[ ¦{ ^å Ác@ }ÉÁ ~[{ Á{ æ} ^ÁÖā ^ &c[ ¦æ¢ •Áæ{ [} \* •óÆ \*ÁTā jā j\*ÉÉÕ^[ [[\* ^ÉAY æ¢ ¦Áæ) å ÁCLāt æœā] }ÉÀÙāj &^ ÁFJÌ Í ÉÁ T ÒT ÜÁ, æ Áæ• •ãt } ^å Áæ• Ác@ ÁÚ¦^•ãa ^} oÁ[ ~ÁÞÜOĐĚAY æ¢ ¦Áæ) å ÁCLāt æœā] } ÁÖā ^ &c[ ¦æ¢• Á, ^ ¦^Á dæ) •∽¦¦^å Áç[Á[ ¦{ Áæ) Á\*•• ^} õãæ Ác@ ÁÚ¦ < ] [} ^} oÁ; ÁTY OĐÁ

P[,^ç^¦É2àæ^^åÁ[}Á'^&^}o?ač cā] \* Á& + d`&č ¦ā] \* É2|æ; ÁÞ[Ě4QFÏDÁ2[¦Ác@A´^æ+ÁQC=EFIDÁ'^|ææ3] \* Á[Ác@A´ |^•d`&č ¦ā] \* Á;-Á3] • Cāč cā] \* Áæ) å Á[ç^!} { ^} cæ+Á !\* æ) ã ææ3] \* É2ar Á@ Á(\* æ+Á` &&^••[|A[|Á@A + ÜOEÁ ; æ Á[|{ ^åÉ3, @3&@Áæ Ác@AO}^!\* ^ Áæ) å ÁT ā] ^ |æ+ÁÜ^\*` |æe[|^ÁÔ[{ { ã • ã] } ÁQOTÜÔDÁ= c@AOTÜÔA ã Áæ+[Ác@A[^\* æ+Á\* \* &&^••[|A[|AO]^& d 3&ãč ÁÜ^\*\* |æe[|^AÔ[{ { ã • ã] } ÁQOÜÔDÁ=) å Ác@AF[|åæ] Á Þ`&|^æ+ÁÜ^\*\* |æe[|^ÂÔ[{ { ã • ã] } ÁQBDÜÔDÉÁ

V@:Á{ æaāj Á+dæe^\*a&Á[àb%caāç^•Á[-Áo@:Á{ ājā\*d^Áæb^Ád[Á^}•`¦^Ár}^\*&&a&a?)oÁ]¦æ&ca&^•Áāj Áæb¦Á •^&d[¦•ÉÁ]¦[{ [c^Á?}^!\*^Á^~a&a?}&^Á]¦[b%co•ÉÉå^ç^|[]{ ^}oÁæa}åÁ^~a&a?}oÁ^¢]|[ãaæaāj}Á[-Á[&æbjÁ ^}^!\*^Á[`¦&^•Á`&@áæeÁ^}^, æà|^Á?}^!\*^ÉÁ

#### ("&"&`A]b]ghfmicZ5[f]Wf`hifY`fAc5Ł`

V@ÁT āj ā d^Áţ ÁQE ¦ 認、 |č !^ÁQT [ OEDÁn Á^•] [ }•ãa|^Á{ [ ¼ æ) æt āj \* Áj `à | 認ん為; \* ^|æ) å•Áæ) åÁ{ !^• œ ÉA ] ![ c^&cāj \* Ár [ āļḖ] æ č !^Ёæ) åÁæ) åÁ{ [ !æḖ] ![ çã ā] } Á[ -Áæť ¦ 認、 |č !æ‡Á|[ æ) • Ḗ\* `] ] [ ¦cÁæ{ ^!• Ḗc@Á \* !æ) cāj \* Á -Á ^! { ão Á[ !Áã ] [ lcÁæ) åÁæ] åÁ¢] [ lcá -Áæť ¦ 認、 |č !æ‡Á ![ å` &o Á[ -Á] |æ) dĔ́æj ā] æ‡Áæ} åÁç ^!• Ḗc@Á { ^å ä8ā] ^• Áæ) åÁçæ8&ā] ^• ḖAæ) åÁ\āç ^Aàā å• ḖAc@ Á^• cæà |ã @ ^} oÁæ) åÁ!^ } , æ‡Á[ -Á|ã2^} e. Á { ^å ä8ā] ^• Áæ) åÁçæ8&ā] ^• ḖAæ) åÁ\āç ^Aàā å• ḖAc@ Á^• cæà |ã @ ^} oÁæ) åÁ!^ } , æ‡Á[ -Á|ã2^} • ^• Á { ^å ä8ā] ^• Áæ) åÁçæ8&ā] ^• ḖAæ) åÁ|āç^ Áàā å• ḖAc@ Á^• cæà |ã @ ^} oÁæ) åÁ!^ } , æ‡Á[ -Á|ã2^} • ^• Á { ^å ä8ā] ^• Áæ) åÁçæ8&ā] ^• ḖAæ) åÁ|āç^ Áàā å• ḖAc@ Á^• cæà |ã @ ^} oÁæ) åÁ!^ } , æ‡Á[ -Á|ã2^} • ^• Á { ^å ä8ā] ^• Áæ) åÁçæ8&ā] ^• ḖAæ) åÁ|āç^ Áàā å• ḖAc@ Á^• cæà |ã @ ^} oÁæ) åÁ!^ } , æ‡Á[ -Á|ã2^} • ^• Á { ^å ä8ā] ^• Áæ} åÁçæ8&ā] ^• ḖAæ) åÁ|ãç^ Áàā å• ḖAc@ Á^• cæà |ã @ ^} o´Aæ) åÁ!^ } , æ‡Á[ -Á|ã2^} • ^• Á { ^å ä8ā] ^• Áæ} åÁçæ8&ā] \*• ḖAæ} åÁ|ãç^ Áàā å \* ḖAc@ Á^• cæà |ã @ ? } o´Aæ) åÁ!^ } , æ‡Á[ -Á|ã2^} • ^• Á { ^å ä8ā] ^• Áæ} åÁçæ8&ā] \*• ḖAæ} åÁ|ãç^ Áàā å \* ḖAc@ Á\*• cæà |ã @ ? } o´Aæ} åÁ!^ } , æ∯Á[ -Á|ã2^} \* ^• A { ^å ä8ā] ^• Áæ} åÁçæ8&ā] \*• ḖAæ} åÁ|ãç^ Áàā å \* ḖAc@ Á\*• cæà] ä { [ ] æ} ã \* ḖAcæ8¢[ !ã\*•ḖAc@] • ḖA æ] àÁ|ã\*^ Áæ} É́A @ áð \* á a í að \* Áæ} åÁ[ !Ãæ] [ ·Á] ![ c^8æā] \* Á ] ![ çãã^ Acæ} àÁ^\* !æā] § \* É́U[ { ^Á, ãå |ã^ Aj ![ c^8æā] } Áa å] åÁ] ^! { ãcā] \* Áæ} • Áæ^ Aœ A^\* A@ [ aÅA^\* `] æā] } \* É́U[ { ^Á, ãå |ã^ Aj ![ c^8æā] } Áa å] åÁ] ^! { ãcā] \* Áæ [ ~Á@ÂÜ[ ^æÂÛ[ &ã\* c´Á[ !Á@ ÁÔ[ } •^!;cæaā] } Á[ ÁÞæɛš !^ÁÇÜÜÔÞDÉÁ

# ("&" `A]b]ghfmicZKUhYf`UbX`≠f][Uh]cb`fAK +∠`#KUhYf`5ih\cf]hmicZ >cfXUb`fK5>-∠`

V@•^Á[¦\*æ);ãææā[}•Á, [¦\Á&[||^&cāç^|^Áa];Á[¦å^¦Á[Áå^c';{ ā,^Ác@A;ææā[}æd4,æec';Á][|&&a?•Áæ);åÁ |^\*`|ææā[}•Áaj;Á[¦å^¦Á[[c'&c4,æec';Á'[{ &&[}cæe[ā];ææā[}È&Q;Áæååãæā[}È&Q@A;ājæc';A][]&=ãa]^Á -{¦Á,æec';Á];[c'&cā[}Aæ);åÁ{ [}ãa['ā];\*Á\*ec'å^ā];\*Áāl¦ãtææā[}Á];æecc';}•Áæ);åÁ\*e^,^kæ\*AÈAT[¦^[ç^;ÉÅ \*'[`}å,æec';ÉÅæč`ã^;Á{ æ}æ\*^{ ^}oÁæ);åÁæà•dæ&cā[}A{ [}ãa['ā];\*Áæ};åÁ]&ecc'; '\*][}•ãaājãac´A[,ÁCUERÈÅ

Õ^}^¦æ|^ÊÁYOERÁarÁ^•][}•ãa|^Á{¦Ás@Aj`à|3&Ajæer\¦Á`]]|^Ása)åÁjæerd, æer\¦Á^¦ça&A•ÊáseAj^||ÁseA -{¦Ác@A[ç^\æ|Ajæer\¦Á\^•[`¦&^•A]|æ}}ðj\*Áæ)åÁ{[}ãq['ãq]\*ÊAj@4p^ARXOEÁārÁ\^•][}•ãa|^A-{¦Á {æ}æt^{ ^}oÁæ)åA] ¦[c^&caq]}Á[-Ájæer\¦Áæ)åÁ|æ)åÁ\?•[`¦&^•ÊAja&|`åðj\*Ác@4āÁ•`]][¦caj\*Á ðj-¦æed`&c`¦^ÈÁ

#### ("&"(`A]b]ghfmcZ<YUれ`fAc<と

Q Ách { • Á[ -Áco ﷺ Á] | [ b & dÉ coo ÁT ð] ﷺ d^ Á[ -ÁP > ædo Âj all Á@æç > Áæ 4\* ` ] ^ ¦çã [ ¦^ Áæ) å Á{ [ } ãt | å] \* Á[ |^ Á coo [ \* @Áh } -{ | & ð] \* Áæ| Áæ] | ﷺ a d^ Á[ -ÁP > ædo Âj all Á@æç > Áæ 4\* ` ] ^ ¦çã [ |^ Áæ) å Á{ [ } ãt | å] \* Á[ | ^ Á æ] ^ & o Áæ) å Á] | [ çã ð] > Á[ -Áco ÁÕ > ^ | æð 4P > ædo 4Å 5æ; ÉÅ [ ĚÅ I Ä Á[ ¦ Áco Á ^ æ ÁG = É Å Å] Å] æd a čaš | æ Á chapters 8 to 10 and 13). In summary, the ministry's roles will include but not limited to the -{ ||[ , ð] \* K

- •Á Ô@eatjc^¦Áì ÉÁÖ¦ãj\ãj\*ÁY æc^\¦KÁT[}ãt[¦ãj\*Á[-Áå¦ãj\ãj\*Á\_æc^\¦Áč`ætaãc ÁætjåÁãa•Á•[č'|&^•Át[Á ]\^ç^}o%estj^Á[c^}cætjåætak[}LÁ

c@^Á|ãrcÁ[~Á]^¦{ãcc^åÁ&@{ã&adp•Á]¦[][•^åÁà^Ác@∘ÁTājãrd^Áq[Á^}•`¦^Á]`à|ã&Á@radpo@Á ]¦[c^&cā[}EĂ

- •Á Ô@egi c\¦ÁF€ÉÉP^æco@Pææå•kkÔ[{] |ãegi &\Á ãr@k@ÁQ•d`&qi}ÅP[ÈÁÇFDÁØ[¦^^ædAG€FFÁ[¦Á c@Á, \^c^} qi] Å Á Á &&`] æqi }ædA@eæaå•Á^\avecaå &A^\aveca@A@eæaå•Á^•`|qi \* Á\[{ Áæà[`\Á housing units' onsite to avoid any health hazards to workers or others such as, dust, [å[¦Ébegi åÁ[ã\*Aégi àÁ`}•`\A∱\[]^\'Asã][•æ4Á, A\*^}\aveca&A; æc\aveca&A; æc\, æc\`ÈÁ
- •Á Ô@ædj c\*¦ÁFHÉÁV¦æå^Áædj åÁQj å č d āð kác@ ÁT āj ār d ^ Áj āļ|Á\*} č ¦^Á&[ { ] [āædj & A Áj ãt@Ác@ ÁV]æå^ÉÁ Qj å č • d ^ Áædj åÁU &&č ] æatāj } ædÁÜæ^c ĉ ÁŠæçj ÁÞ[ ÉÁQFÎ DÁ2[ ¦Ác@ Á ^ ædÁFJÍ HÉÁV@ãt Á&ædj Áà^Áå[ } ^ Á c@[č \* @Ásj • ] ^ & catāj } • Ásj Áţ ¦å^¦Áξ Áş ¦^ç^} cókædj ^ Áj [ c\*} cāædÁ@ ædc@4k ¦Áţ &&č ] æatāj } ædÁ@æe ædå•EÁ

## ("&") `A]b]ghfmcZAib]W]dU`5ZU]fg`

 $V @ AT \tilde{q} \tilde{a} d^{4} \tilde{k} A \tilde{c} \tilde{k} \tilde{k} \tilde{k} \tilde{q} \tilde{k} \tilde{k} ] A (Q A \tilde{k}) ] A (Q A A \tilde{k}) ] A (Q A A \tilde{k}) ] A (Q A$ 

## ( "&"\* `A]b]ghfmcZDi V`]WK cf\_g`UbX`<ci g]b[ `

V@ÁT 募 ã d^Áţ ÁÚ ǎ | 認ÁY [ ¦\●Áæ) åÁP[ č●募 \* Áæãţ ●Áţ Áå^ç^|[ ] Áæá} ^ç [ ¦\Áţ Á] č à | 認Á[ æå●Á募 Áœ Á \ 3] \* å[ { ÊÁ | 3] \ 3] \* Áq ; } ●ÊÁ çã| æ\* ^●Áæ) åÁ &[ { { č}ãã \* ●Áæ) åÁ •ãc • Á[ ~Á 3] å č • dãæ Á] ¦[ å č&qī } ÊÁ æ\* ¦ 認č | cč ¦ æÁæ) åÁq[ č ¦ ã cÁæ ^æ Áæ) åÁæ &@æe [ |[ \* 認æ Á •ãc • LÁæ) åÁqţ Á| 3] \ Ác@ ÁS 3] \* å[ { Áæ) åÁ } ^ãt @a[ ¦ 3] \* Áx[ č } dã • Áæ) åÁ \* •œañ Áx@æ Á, ^ç [ ¦\Áæ) åÁ ^^] /ãx % &@ 38æ Á / ç / ÈÁ

V@ÁTājārd^ÁārÁadp•[Á,[¦\āj\*Á;}Á]\*¦ænåāj\*Ás@Á`ædaĩÁ;Aá@Á[ænå•Áæ)åÁs@A;¦[{ [cāj}A;AÁæ^ĉÁ ¦^``ā^{ ^}œAjÁæååãāj}Áq[Á^^]āj\*Áæà¦^ærA{;Ac@Áæe^•OÁ]åæe\*•Áæ)åÁs&@;ã`^•Á;A{;[å^¦}Á ¦[ænå•Áæ)åÁāt@æ3j\*ÈÁ

## ("&"+`A]b]ghfmcZHfUbgdcfhi

V@ ÁT ājā d^ Áæe• `{ ^• Á@ Á[ ||[, āj\* Á/•][} • âa ājānā • Á`} å^¦ Á@ Á/¦æj•][¦ơÁŠæç ÁÞ[ĔÁÇÌJDÁDÁ ^ æbÁ GEEHÁej å Ásĕ c@ ¦ãæaāj }• Á, ^^å^å Áşi Á, 'å^¦Ági Ásæk¦^ Át` óKær Á, ã•āj } Á` &@Ásæ Kós^çãā j\* Ás@ Ár^}^¦æbÁ ][|ã& Á[¦Átæj•][¦ơÁej à á∱ç^¦•^^āj\* Ásær Ásī]|^{{ ^} cæaāj } Áşi Á&[[¦åājæaāj } Ásej å Á&[[]^¦æaāj \* Ás@ Ár^}, Å ][|aæ^å Á]æbað•LÁ/\*\* |ææāj\* Áæj å Á[[}ãt[¦āj\* Ác@ Á[æå Á¦^ā\*@Ádaj•][¦ơÁ•^&d; ¦Áæj å Áser Á·¦çã& • LÁ ã• čæj &^Á[-Á}^& \*• æā^Á]^¦{ ãr Á-{¦Áāj å ãçãa čær Áæj å Á&[{]æj ðe A[]^¦ææāj\* Áāj Ác@ Á•^&d; ¦LÁ

¦^\* ٽ اِعْدَةَا \* Áæ) å Á{ [} قَبَلَ اللَّهُ \* Ác@ Á¦^ ∄ @Ád æ) •] [¦dÁàˆ Á¦æājÁ• ^ &q[¦Áæ) å Áão Á• ^¦çã& • ÉÉæe Á, ^||Áæ Á ã • ٽ æ) &^ Á, ح∕Ą ^ &^ • • æˆ ႓, ^¦{ ão Á{ المُرَامَ المُحَافَةُ \* Á§ Á@ Á ^ &q[¦Áæ] å Á( æ) ˆ ႓, c@ ¦Á ^•] [} • âa āñað • ÈÁ

## ("&", `>cfXUb`GHUbXUfXg`UbX`AYhYcfc`c[mCf[Ub]gUh]cb`fbGACŁ`

 $\begin{aligned} \text{RUTUA} &= \hat{A} =  

V@^Á(æaj)Á(àb%scãç^•Á(ÁRÙTUÁse^ká

- A CEa[] cti } Á[ Áœáy æcti ] ædó • co { Á[ ¦Á• cæ) åæåã æcti ] Áæ) åÁ( ^d[ [[ \* Âàæ ^åÁ[ } Á æsta ] co åÁÿ co ¦} æcti ] ædó, ¦æcti 2 ædó, i æsta 3 æcti ] ædó, i æsta 3 æcti ] æsta 3 æcti ] æsta 3 æcti ] ædó, i æsta 3 æcti ] æsta 3 æcti ] æsta 3 æcti ] ædó, i æsta 3 æcti ] æct

- •Á Üæāj \* Ác@ Á č ætáč Á[ -Á][ & ætáč Á] ' [ å č & o Ác@] \* @ Ác@ Áæå[ ] cāj } Á[ -Áæj] ' [ ] ' ãæc^ Á R[ ¦åæj ãæj Á Úæaj åæbå • Ásj Á; ¦å ^ ¦Á [ Á ] @ ætj & ^Ác@ ã Ás[ { ] ^ cãtãç ~ } ~ • ^ Asj Ás@ Á[ & ætjÁæj å Á āj c^ ¦ } ætja } ætjÁ æb \ ^ o Ásej å Ás@ • Á ` ] ] [ ¦cÁc@ Áj ætāj } ætjÁ & [ } [ { ` ÈÁ

#### ("&"-`8 YdUfha YbhcZ5 bhjei]hjYg`fB c5 Ł

Ö[0EÁ, æ=Á^•cæaà|ãa@aåÁð), ÁFJGÌÁæe, Ác@A[,~383ãæ¢Áð)•cãač cáj,}æ¢Áæě có2,¦ãaĉÁ(æ),åææ^aÅà^Áþæ; Ád[Áà^Á ¦^•][}•ãa|^Á{[¦Ác@A,¦[c^&caj,}E£8{[}•^¦çæaāj,}Áeb),åÅ,¦^•^}cæaāj,}A(;Áeb),cãač ãað)•EÁ

V@^Áç[Á,æan)Á,[|a&a?•Ásel^kÁ

## ("&"%\$`9bYf[m'UbX`A]bYfU`g`FY[i`Uhcfm'7caa]gg]cb`f9AF7と

V@ ÁÒT ÜÔÁā: ÁæÁ\* [ç^¦} { ^} œdÁà[å^Ác@eecÁ] [••^••ÁæÁ|^\*ædÁ] ^!•[}ædã: Á,ão@Á-ājæ) &ãædÁæ) åÁ æå {ājā: dæaã;^Áājå^]^}å^} & Aæ) åÁā: Á&[}•ãå^!^åáAc@ Á|^\*ædÁ•`&&^••[!Á[-Ác@ ÁÒ]^&d &ãaã: Á Ü^\*`|æet[!^ÁÔ[{ {ã•āt}}ÁQDÜÔDÁæ) åÁs@ ÁAT[!åæ) ÁÞ`&|^ædÁÜ^\*`|æet[!^ÁÔ[{ {ã•āt}}ÁQRĐÜÔDÁæ) åÁ c@ ÁÞæeč!ædÁÜ^•[`!&^•ÁOE c@]!ã: ÁQDÜODÁæ) åÁs@ ÁAT[!åæ) ÁÞ`&|^ædÁÜ^\*`|æet[!^Áœ]\•Áæ&&[!åā]\*Át[Áæ; ÁÞ[ĔÅ QFÏ DÁ-{!Ác@ Á^^ædÁQD€FIDÁ!^\*ælåā]\*Ác@ ÁI^•cč&c'lāj\*Á[-Áãj•cãč cāt]•Áæ) åÁ\*[ç^!}{ ^}œdÁ [!\*æ]ãææatt})•ÉÅ

#### Á

## ("&"% BUH]cbU'9`YWf]WDck Yf'7 ca dUbmifB9D7 CŁ

Á

#### ("&"%& A]b]ghfmcZ@UVcf`fAc@L

T [ŠÁ@æe Á'}å^¦cæ\^}Áv@ Á^•][}•āaājāc Á[-Áæ&&A[{]|ār@ā]\*Áv@ Á'\*}^¦æ4Á[àb/8kaãç^•Á[-Áææà[¦Áæa)åÁ |æà[¦^!•Áæ-æaå•Áæa)åÁãr•\*^•ÁājÁā[¦åæa)ĚV[Á^^]Á]æ&^Á[āx@A'[8kāæ4Áæa)åÁ'&[}[{ 884Aå^ç^|[]{ ^}dÉ c@ ÁŠææà[¦ÁŠæç Á¤[ĚÁQ]DÁæa)åÁãr•Áæ{ ^}å{ ^}œÁ[¦Ás@ Á^æa/ÁFJJÎÁ;æe Áãr•\*^åÁæa)åÁs@ Áæå{ ājār dææãç^Á ¦^\*\*|ææā]}Á¤[ĚÁQHÌDÁ[-Áx@ Á ^æa/ÁFJJIÁ;æe Á\*•ææà]ã @ åÉæae[]\*Á;ãx@Áær Áæ{ ^}å{ ^}œÉA

V@^Áaæe•\•Áį~Áa@∘ÁTājã:d^Á§j&|ĭå^kÁ

- •Á U¦\*æ) ã āj\*Ác@ Á|æà[¦Á•^&q[¦Éžæe Á, ^||Áæe Áĭ] åææāj\*Á|æà[¦Á|^\*ã\*|ææāt] }Á•[Áæe Át[Á(^^o@ Á }^^å•Át\_Ác@ Á|æà[¦Át\_æk\^ÓAnj Átāt @z⁄t\_Ác@ Á\*[&ãand-Áæa) åÁ^&[}[{ 3824å^ç^|[] { ^} œ Átā ã@anj Áæá ~¦æt{ ^, [¦\Ác@æeÁt æaāj cæaāj•Ác@ Áj¦[å č&cāt] }Ájædcāv•Átāt @ene Ésæaj åÁ&[}d ãa č c^•Áaj Á\*}&[č ¦ætāj\*Á c@ Át[¦^āt] Áabjç^•q{ ^} œ ÉA
- •Á Ô[] dâač cāţ] Át[Ác@ Áå^ç^[] { ^} c^{A}; [ \\ [ \&^ Ác@[č\*@Ác@ ÁX[&æaāţ] adÁæ) å ÁV^&@ 38ædÁ V:æājāj\* Áæ) å ÁÒåč &æaāţ] adÁÔ[č} & 34ÈÁ
- •Á Ô[||æà[¦ææā[}Á§IÁ@{ æ}IÁ^•[č¦&^•Áæ]åÁ,[¦\-{¦&^•Áå^^(]]{ ^} 6Å,'[b^&o•ÈÁ
- •Á U¦\*æ);ããj;\*Ás@∘Á[¦^ãt}Á;æà[¦Á§jÁs@/ÁR[¦åæ);ãæ);ÁŠæà[¦ÁTæ}\^dĚÁ
- Á Tænāj cænāj Áseçænājæ à |^ Ábj à Áj] [ ¦ č } ãn  $\hat{a}$  Ábj Á $\hat{A}$  ] |[ ^ Á $\hat{A}$ ] à æj  $\hat{a}$ ej Á $\hat{b}$ ææ à [ ¦ ÈÁ
- •Á Ó ĩ đả đặ \*Á ] Á ceà [¦Á, ceà∖^ cÁà ceaeà ce-^• ÈÁ
- •Á Ô[}•[|ãa:æeā],\*Á&[[]^¦æeā[}}áxe);åAj;æeld;^¦•@3],Á;ãc@kó@?Aj;|ãçæe^Ár^&q{;|ÈÁ
- •Á Ô[}•[|ããæaā]\*Á^\*ā[}æ4Áæ3)åÁ5g&\*|}æaā[}æ4Á8[[]]^¦æaā[}Åæ3;åA;æ4;}A\*
- •Á Ô[}•[|äåææä]\*Á;æd;^\!•@3]Áæ;åÅ;[]]^!ææaj;}Á;ão@4%[]][!ææaj;}•Á%[}&^!}^åÅ;ão@4;!^]æd;ä\*Á æ)åÅ%^ç^[]]āj\*Á?~{ æ)ÁÜ^•[~`!&^•Á

## (" 'Df]bV**J**dU'B**Uj**cbU'@/[ ]g`U**j**cb'

#### (" "%@Ukg

■Á Quåĭ•d^ÁBÁ@ee)åa&¦æeóÁæçÁQÞ[ĚAFÎÉAFJÍHDÁ

■Á Tæ)æ\*^{ ^}ơ{(, Ápæč ¦æ4ÄÜ^•[č ¦&^•AŠæç ÁQÞ[ÈÆrGÉÆrJÎÌDÁ

- ■Á Šæ);åÁOB&č ǎãããų;}ÁŠæ;ÁQÞ[ÈÁFGÉÁFJÌÏDÁ
- ■Á Yæe^¦ÁOE co@;¦ãc ÁŠæ; ÁKQÞ[ÈAFÌÈAFJÌÌDÁse);åÁão•Áse; ^}å{ ^}o•Á
- ■Á V@? ÁOE; cã čãc? ÁŠæ; ÁÇÞ[ĚAGFÉÁFJÌÌ DÁs;) å Ášer Áse; ^} å{ ^} or ÁÇÞ[ĚAGHÉAGE€EIDÁ
- ■Á Šæà[˘¦ÁŠæç ÁQÞ[ÈÀLÉÆFJJÎDÁæ)åÁãorÁæ{ ^}å{ ^}orÁ
- ■Á Ôãçã¦ÁÖ^~}&^AŠæç ÁÇÞ[ÈÁFÌÊÁFJJJDÁ
- ■Á OE"¦a&č |č¦a¢4Êæç ÁQÞ[ÈÁ\IÉ40€€€GDÁ
- ■Á Õ^}^\æ¢ÁÒ|^&clã&ãĉ ÁŠæç ÁÇÞ[ÈÌIÉAG€€€€DÁ
- ■Á V¦æ)•][¦ææa)[}ÁŠæç ÁQÞ[ÈÀJÊKG€€=HDÁse)åÁ5ør Áse(^}å{ ^}œ Á
- ■Á V@^ÁÒ}çã[}{ ^}oÁÚ¦[c^&cãį}ÁŠæ;ÁQÞ[ÈÁ GÉÁG€€ÎDÁ
- ■Á T `} 384) æ¢aña? ÁŠæ; ÉÁP [ÉÁCF IDÁ; -ÁG€€ÏÁ
- ■Á V@AŹI^^Asej å ÁÖ^ç^|[] { ^} oŹZ[}^● ÁŠæç ÁÇÞ[ ĚdEŽGEEÌ DÁÁ
- ■Á Ú `à|a&AP^a¢c@AŠæ; ÁQÞ[È Ï ÊAG€€È DÁ
- ■Á V¦æ-a&ÁŠæ; ÁÇÞ[ĚÁJÊÁG€€ÌDÁ
- ■Á Ü^}^, æà|^ÁÒ}^!\*^Áæ)åÁÒ}^!\*^ÁÒ-æ3æ?}&^ÁŠæ; ÁÇÞ[ÈÁFHÉAG€FGDÁ
- ■Á Ö^ç^|[]{ ^} oŹ[}^• ÁŠæ; ÁÇÞ[ÈĐŹG€€È DÁ

#### (""&FY[i`Uh]cbg

- •Á Ü^\* |ææā] Á[ ¦ÁÚ| [ c^&cā]; } Á[ ~ÁÓālå• Áæ) å ÁY ājå |ã^ Áæ) å ÁI ` |^• Á&[ ç^ ¦ā] \* Ác@ ãlÁ@ } cā] \* ÁQÞ [ ÈÁ FFHÉÆFJÏ HDÁ

- •Á Õ¦[`}å, æe^\ÁÔ[}d[|ÁÜ^\*`|ææ‡}}ÁQÞ[ÈÀ ÍÊZƏ€€CDÉZ@•`^åÅj`¦•`æ}óÁţÁOEto&A\Áæ}åÅHGÁ [-ÁY æe^\ÁOEto@;¦ãCĂSæ; ÁÞ[ÈAFÌÁţ¦Áo@ Á^æ;ÁFJÌÌÈÁ
- •Á Ü^\*`|æaā[}Á, ÁPæk{ ~`|Áæ) åÁPææåå[`•ÁYæ•c^ÁTæ) æ\*^{ ^} dÆV¦æ) •-^¦ÁBÁPæ) å|āj\*ÁQ>[ĔÁ GLÊGE€ÍDÉÁ
- •Á Ù[ā¦ÁÚ¦[c^&cā;} \ÁÜ^\*č |æcā; \ÁQÞ[ÈAGÍÊG€€ÍDÁ
- À Ü^\*'|æsa;}Á;¦A`\$@`ÁÜ;[d`&ca;}Å;A`A®(AÖ);çã;[}{ ^}o;{A`(A`;A`);A`(A`@cA`);A`(A`@cA`);A`(A`@cA`);A`(A`(A`);A`(A`(A`);A`);A`(A`);A`(A`);A`,A`);A`(A`)

- •Á Ü^\*\* |ææāt} Át ÂU[|ãæ ÁY æ• c^ ÁT æ; æt ^{ ^} of QD[ ÈAGË ÉAGEEÉ DÁ
- •Á OEBIÁÚ¦[c^&ca]; AÜ^\*\* |æea]; AQÞ[ÈAGÌÉAG€€ÍDÁ
- •Á V@×ÁÒ}çã[}{ ^}œa‡ÁQ,]æ&oÁOE•^••{ ^}oÁÜ^\*\*|ææãį}ÁQ⊃[ÈÁHÏÉÃO€€ÉDÁ
- •Á Šæ) åÁ•^Á, |æ) }∄, \*ÁÜ^\*č |æaā, }ÁQ⊃[ÈÂ, ÉAG€€ÏDÁ
- •Á V@ ÁÖ^ç^|[] { ^} œŹ[}^• ÁŠæş ÁÇÞ[ ĚĠŹG€€Ì DÁÇÒ}çã[] { ^} œaţÁÚ;[ c^8œ‡i } ÁÜ^\*\* |ææāţ } Á\*œäţlÁ \*}[ ~38õõõ¢ç^|[] { ^} œźZ[ }^• ÁŠæş ÁÇÞ[ ĚĠŹG€€Ì DÁÇÒ}çã[] { ^} œaţÁÚ;[ c^8œ‡i } ÁÜ^\*\* |ææāţ } Á\*œäţlÁ

## (""ʻ=bghfiWhjcbgʻ

- •Á Q.•dǐ&aāt})•Át[¦ÁÖãa][•æ¢Át[-ÁQ,åǐ•dãæ¢Áæ)åÁÔ[{ { ^\&ãæ¢A, æ•c', æc'¦Áð;d[Ác@,Á•^, æ\*^Á }^c; [¦\ÉÁã•`^åÁð;Áæ&&{[åæ)&^A;ãc@ÁY æc'¦ÁOE c@;¦ãcŠæ;ÁÞ[ÈÁFÌÁt[¦Áî^æ;ÁFJJÌÁæ)åÁ OE:a&{^ÁÞ[ÈÁG+Vá; Ác@,ÁÙ^, æ\*^ÁÛ^•c'{ÁŠæ;ÁÞ[ÈÁÎÎÁt[¦Ác@,ÁFJJIÈÁ
- •Á Q,•d č & cāį}•Áį¦Á c@ ÁT æ)æ\*^{ ^} o\$æ)åÁP æ)å|ā)\*Áį ÁP æ æ¦å[č •ÁY æ c^Áį Ác@ Á ^æ ÁGEEHÈÁ
- •Á Q,•d č &cāį}•Áį¦ÄÜ^& î&j\*Áag)åÁPag)å|ãj\*ÁįÁÔ[}•č{ ^åÁJãp•ÁįÁô@Á^ælÁGEEHEĂ
- •Á Q,•d č & cāį}•Áį¦Á c@ ÁŠaį̃ acaecāį}Áse)å ÁÔ[}d[|Áį, Á⊅[ã\*^Á;|Á c@ Á ^ae ÁO∈€HÈÁ

## (""(`GhUbXUfXg`

- •Á Ù caa) åae¦a Á{{¦Áãt@cāj;\*Á{^ç^|●Á§jÁ;[¦\Ár}}çã[]{{^}∂/Φ[ĚÁ,GI⊞FJÌÏDÁ
- •Á Ùcaa)忦åÁ{{¦Á@?æaÁ^ç^|•Áæe¦[,^åÁ{{Ás}^Á?¢][•^åÁ{{Ás}}Á{{Ás}}, [¦\Á?}çã[}{ ^}o^4Q>[ÈĂ、GÍĐ=JÌÏDÁ
- •Á Ùcæ) åæ åå Á{ ¦Á(æçã(č { Áæ)[,æà) ^Á(ã(ãor Á[ Áæá)Á] [ ||čæ) or Á { ãoc^à Á+ [ { Ác@: Á+ cæcã( } æc à] }æ ^Á ( ~Áæ) ^A ( ~Áæ) ^A ( ~Áæ) ^A ( ~Áæ) ^A ( ~Aæ) ^A (
- •Á Ùcaa) åælå•Á{¦ ¦ÁT [d[¦ÁÒ{ã•ã[}•ÁÇRÙÁ∓€Í ŒEFJJÌ DÁ
- •Á Ùcaa)åælå•Á{¦lÁT[d[lÁK^@3&|^ÁÔ{ ã•ã}}•Á-ÁÖð{•^|ÁÔ}\*ã}^•ÁQRÙÁ≂ÉIHBFJJÌDÁ
- •Á Ùcaa) åælå•Á{¦ÁT[d[¦ÁK^@3&|^•Á©[ã^^ÁŠ^ç^|•DÁÇRÙÁF€ÍJ⊞FJJÌDÁ
- •Á Ùcaa) åælå•Á{¦Á^&|æaąĩ^åÅ&[{ ^•ca&Á;æec^,æe^\ÁQ⊃[ÈÂ,JHEO⊖∈ÊDÁ
- •Á OĘ àã\*} ơ Á Oãa ÁÛ ઁ æ jāc Á Ú cæ jàæ jå å Å [ È Æ F I € B Ø € Ê D Á

Á

- •Á Ùcaa) åælå•Á[¦Á\$jå`•dãælÁ^&|æaj[^åÁ;æeco, æc^¦ÁQÞ[ÈÁG€GBD€€Ë DÁ
- •Á Ö¦ãj∖ãj\*ÁYæe^¦ÁQ⊅[ÈÈÌΣ09€€ÈDÁÙcæ)åælå•ÈÁ

## ('('FY[]cbU'UbX'=bhYfbUh]cbU'5[fYYa Ybhg'UbX'DfchcWc`g'

V@~ÁSāj\*å[{Áţ~ÁRަåæ);Á@ze•Á;ãt}^åÁe3;åÁæ3;åÁ@c@æcÁ5;ÉÅj|æ&&^åÁ§jq[Á;ææ3;}æ4Áæ;DÁs@A¥[||[¸āj\*Á ājc^¦}ææ3[}æ4Á;¦[q[&[|●Áæ3;åÁ汦^^{ ^}c•Á^|^çæ3;o46[Ás@ã+Á;¦[b%&o4Gåæex^•Á;~Á\*}d^Á§jq[Á{¦&x^Á;[c^åÁ ājÁjæ4^}c@•^•DeÁ

- •Á Quơ^¦} asati } asati ¦ có sati } ÁQ[ } ç^} cā } ÁQC Đ Đ Đ J ÜÀO
- Á Ô[ } ç^ { ឿÂ { Å ⓑ { Å ⓑ C A & C A &

- •Á Ú¦[d[Áæ{ /\å ák@ AÔ[ \ç^\ cā[ \A ( À ā (c^\ )) ab (ab / A ( À ( À [ À ( À ab / A ( À ab / A ( A
- •Á Ú¦[q[&[|Á[}ÂŬ`à•œa)&^•Ás@eedÄÖ^]|^c^Ás@eAÚ:[}^ÄŠæê^¦ÁQHEBÒBFJÌJDLÁ
- •Á Ô[}ç^}cā[}Á[¦Ác@ÁÚ¦[c^&cā]}Á[;Ác@ÁU:[}^ÁSeê^¦ÁQ=FFÐ)BFJÌJDAÁ
- •Á Ô[}ç^}cā[}Á() ÁÓā[[[\* 38æ4/Юãç^¦•ãc ÁÇF€EDEBFJJIDLÁ
- •Á Ølæ{^,[¦\ÁÔ[}ç^}cā[}Á()ÅÔ|ã[æe∿ÁÔ@ea)\*^ÁQCFE9HEFJJIDLÁ
- À Oặ ^}å{ ^}å ð ð ð ð أ) كُلْ هُ فَكَمُ مَ أَن كُمْ هُ مَ أَن كُمْ هُ كُلْ مُ كَلَا مُ أَن كُمْ هُ كُمْ مُ أَن كُمْ هُ كُلْ مُعَانَكُ À كُمْ مُ أَن كُمْ هُمُ أَن كُمْ هُمُ أَن كُمْ هُمْ أَن كُمْ فُوْمُ أَن كُمْ فُوْمُ أَن كُمْ هُمْ أَن كُمْ مُ أَن كُمْ مُوْك مُعْلَمُ مُن مُن مُعْلَمُ مُعْمَان المُعْلَمُ مُعْلَمُ مُعْلَمُ مُعْلَمُ أَن مُعْتَمُ أَن كُمْ مُوْكُمُ أَن كُم
- •Á Ô[}• cãč cā[}Á[, -Ás@ Ás2[[å Áse) å ÁOE\*¦ã&`|c`¦^ ÁJ|\* æ) ã æeā[}Á[, -Ás@ ÁW}ãv° å Áp æeā[}• ÁşCHBFBFJÍFDÁ

# (') 'GdYVJZWFYYj UbhGhUbXUfXg'UbX'; i ]XY]bYg'

CE[[Á]; | [b^&crÁ, ão@); ÁR[ ¦åæ); Á&^] ^} åÁ; } Ás@ Á] ^&ãã&Á; | [b^&có&^•ā } Á^~ ă^{ ^} r Áz); åÁz) ] |a&æa)|^Á æt ¦^^{ ^} orÁ, ão@^{^} çã[ } { ^} cæ‡Á] ^¦{ ãcā} \* Ázě c@; ¦ãcã • ĚÙ] ^&ãã&Á^~ ã^{ ^} orÁ |æeã; \* Át Ác@ Á -{ ||[ , 引 \* Ázd^Á; | [çãa^åÁs^|[ , KÁ

Á

- ●Á CEĘ àã∿} cÁscāiÁ ĭæljãcî LÁ
- •Á OEāÁA { ã •ā] } Áā ā a •Á [ { Á cæcā] } æ ^ A [ ` \& •LÁ
- •Á CEĘ àã^} ơÁ,[ã=^LÁÁ
- •Á Ù[ā/Áæ) å/ÁÕ¦[`}å, æe^\¦ÁÛ`æ jác Láæ) åÁ
- •Á Yæoc^ÁTæ)æ\*^{ ^}dĚ

#### (') '%5 a V]Ybh5 ]f Ei U]mi

CE[ $\dot{a}$ ā?} $\dot{a}$  
	>G'Bc"%/(\$#&\$\$*`		K <c<sup>`; i ]XY`]bYg<sup>`</sup></c<sup>	
5]f Dc``i HUbh	5 j YfU[ Y <sup>-</sup> H]a Y <sup>-</sup>	AUI]aia <sup>`</sup> 5``ckUV`Y' 7 cbWYbHfUHjcb`]b <sup>`</sup> h\Y`5aV]Ybh5]f <sup>°</sup>	BiaVYf`cZ 5``ckYX' 9IWYYXYbWYg`	f <b><b>⊩[ #a</b> ˈŁÁ</b>
	F <i>Á</i> ₩AP[`¦Á	€ÈÈHĄ́*⊕*Á	HÁcā[^•∮āc@3)ÁcóÁ *āç^}Á([}c@Ás)Á(}^Á ^^acóÁ	ËÄ
Ù` ]@¦Á Öa[çãã¢ÂQÜUGA	GIÁ∰AP[ĭ¦Á	€ÈFIÁ(*Ð*Á	U}&∿ÁæÁ^æłÁ	fá áçováfdá
				Í€ÁÇQVÁGÐÁ
	F∰Ÿ^æ¦Á	€ÈE Á *Ð*Á	ËÁ	ËÁ
Ôæà[}Á	FÁ₩₩₽[`¦Á	Ġ́Ą́*⊕*Á	HÁcā[^•Á,ãc@3)ÁccÁ *ãç^}Á([}c@Á5)Á(;}^Á ^∧achÁ	ËĂ
Τ[}[¢ãå^ÁÇÔUDÁ	ÌÁ‱∰P[č¦Á	JĄ́ *⊕*Á	HÁcā[^•Á,ãc@3),ÁcóÁ *ãç^}Á([}c@Á5),Á(}^Á ^∧ac¦Á	ËÄ
Þãd[*^}Á Öãį¢ãå^ÁQ⊃U₀DÁ	FÁ₩₩₽[`¦Á	€ÈEFÁ҉*Ð*Á	HÁcā[^•∮āc@3)ÁcóÁ *ãç^}Á([}c@Ás)Á(;}^Á ^^achÁ	GEEÁ

#### HUV`Y`). '5 a V]Ybh5]f E i U`]hmGHUbXUfXg'

	>G`Bc"%%(\$#&\$\$*`		K <c<sup>`; i ]XY<sup>°</sup>]bYg<sup>°</sup></c<sup>	
5]f Dc``i HUbh	5 j YfU[ Y <sup>.</sup> H]a Y <sup>.</sup>	AUI]aia' 5``ckUV`Y' 7 cbWYbHfUh]cb`]b' h\Y`5aV]Ybh5]f'	BiaVYf <sup>·</sup> cZ 5``ckYX <sup>·</sup> 9IWYYXYbWYg <sup>·</sup>	f <b>⊩[ #a ˈŁ</b> Á
	GI <i>₩</i> ₩₩₽[`¦Á	À*⊕*À	HÁcā[^●Á,ãc@3)ÁccÁ *ãç^}Á[}c@Ás)Á[}^Á ^^achÁ	ËÁ
	FÁŸ^æ¦Á	€ÈÉÍÁ(*Ð)*Á	ËÁ	I€Á
V[ œ‡Á Ù`•] ^} å^åÁ	GIA∰AP[ĭ¦Á	G΀Áµ*Ð( <sup>H</sup> Á	HÁcā[^•Á,ãc@3)ÁcaÁ *ãç^}Á([}c@Ás)Á(;}^Á ^^achÁ	ËÁ
Úælæk ^•ÁÇ/ÙÚDÁ	F∰¥Ý^æ¦Á	ΪĺÁµ*Ð2, <sup>Η</sup> Á	ËÁ	ËÁ
ÚT <sub>F€</sub> Á	GIA∰AP[ĭ¦Á	FG€Áµ*₽ў <sup>⊬</sup> Á	HÁcā[^•Á,ãc@3)ÁcóÁ *ãç^}Á;[}c@Ás)Á;}^Á ^^achÁ	FÍ€ÁÇQVÁFDÁ
	F∰¥Y^æ¦Á	Ϊ <b>€Ά</b> μ*Β() <sup>Η</sup> Ά	ËÁ	Ï€ÁÇQVÁFDÁ
ÚT œ Á	GIA‱"P[ĭ¦Á	ÎÍÁµ*Ð2, <sup>⊬</sup> Á	HÁcā[^•Á,ãc@3)ÁceÁ *ãç^}Á;[}c@45)Á;}^Á ^^ae¦Á	ΪÍ ÁÇQVÁFDÁ
	F∰¥Y^æ¦Á	FÍÁµ⊁ÐQ <sup>H</sup> Á	ËÁ	HÍ ÁÇQVÁFDÁ
	FÁ₩ÂP[ĭ¦Á	À+∰¥	HÁcā[^•Á,ãc@3)ÁccÁ *ãç^}Á;[}c@45)Á;}^Á ^^achÁ	ËÁ
₽ <sub>G</sub> ÙÁ	GIÁ¥áP[ĭ¦Á	€ÈEFÁ҉*Ð*Á	HÁcā[^•Á,ãc@3)ÁceÁ *ãç^}Á;[}c@45)Á;}^Á ^^ae¦Á	ËÁ

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U&&`]æa‡i}æ¢ÁÙæ^c`Áæ}åÁP^æ¢c@ÁŒá{ ējārdæa‡i}ÁÇUÙPOEDÁæ?^Á&[}•ãa^¦^åÁæ‡i]|3&æà|^Áq[Ác@árÁ ]¦[b%xdÉÁV@:ÁŒáÁÛ`æ¢ãĉ`ÁÕ`ãa^|ēj^•Á-{|¦ÁÓVÒÝÁæ•Á]¦[çãa^åÁà^áÁà^Ác@:Áæà[ç^Á{ ^}ca‡}^åÁ [¦\*æ}ãæa‡i}•Áæ?^Á`{{ æ4ã^åÁşiÁHUV`Y\*\*Áà^|[,ÈÁ

HUV`Y*	. '6 H9 L	`GhUbXUfXg`
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	K <c<sup>-5E; <sup>-</sup></c<sup>	B€G<	CG<5	
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V[  ` ^} ^Á	€ÈGÎ{*Ð(HÁÇ^^\DÁ F{*Ð(HÁÇ+1€Á,ã)DÁ		FÌÌÁ(*Đệ HÁÇVY OĐĐÁ FÌÏÍÁ(*Đệ HÁÇÙ∨DÁ	

Òo@ Áa^}:^}^Á	GGÁ(*Ð(HÁǦDÁ	IHÍ{*Ð;HÁÇ/YOÐÐÁ ÍIÍ{*Ð;HÁÇÙVDÁ	IHÍÁ(*Ð;HÁÇVYOBÐÁ
Ý^  ^} ^•Á	lÈt{*Đ;HÁÇCIÁ@•DÁ €ÈÈÏ€{*Đ;HÁǦDÁ	IHÍ{*Ð;HÁÇVYOÐDÁ ÎÍÍ{{*Ð;HÁÇÙVDÁ	IHÍ{*Ð; HÁÇVY OEDÁ

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<u>BchY.</u>

VY 0.EÁ-Ásąĩ ^Á, ^ã @c^å/seç;^¦æt ^Áŷ, Áqũ, č ¦ • DÁ ÙVÁ-Á @c¦ó kc'¦{ Á¢][•č¦^Á0;FÍ{ã,•DÁ

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- •Á O⊞Á&[}•d`&a‡i}Áæstançãna?•Á`dapãaj\*Á}[ã\*Á];[ã\*Á];[å`&āj\*Á] |a);orÁæ)åÁ^``a]{ ^}oÁQ`È`EÁ'ã\*EÁ {ã¢^¦•Áæ)åÁçãa;|aæ[¦•DÁ(`\*•Ó&A`æ\*^Áà^ç, ^^}Â`K€€Á]{ Áæ)åÂ`K€€Áæ{EA`}|^••Áæá]^!{ãó/ãrÁ \*¦aa)c^å/áî^Ác@ ÁT[Ò}çLÁ
- •Á Y [¦\Áæ&caçãa?a)•Á,ãc@3)Á[ã @cÁnjå`•dãæd,Áæc^æ-Á,ãc@A(^•ãa^);cãæd,Áå,^\]]ā,\*•Áæc^Aj,'[@ãaãc^åA(‡Á &[}cā)`^Áa^ç,^}A)KEEÁ;{Áæ)åÂ;KEEÁse;ÁQ;`{{^!Dáe)åÅa^ç,^}A,KEEÁse;Áæ)åÂ;KEEÁse;Áæ)åÂ;KEEÁse;Á Çãjc^!DEÁ

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	8 Umi	B][\h
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Ü^∙ãå^}cãæ‡Á∞d^æ•Á,ãc@3jÁi`à`¦à•Á	ÍÍÁ	ΙÍÁ
Ü^∙ãå^}cãæ‡Ásd^æ•Á,ãc@3jÁşã∥æ*^•Á	Í€Á	I €Á
Ü^•ãå^}cãæd,Áæd^æeÅ,ãt@Á&[{{ ^¦&ãæd,Áæ&cãçãtã?•ÉÅ •^¦çã&^•ÉÅãt @Á@æe)å&¦æeeÉæee)åÁ&ãcîÁ&^}d^Á	ÎÍÁ	ÍÍÁ
Qåĭ∙dãæd,Áæd^æe,ÁÇP^æç≎ÁQaåĭ∙d°DÁ	ΪÍÁ	ÎÍÁ
Ú æ&^•Á[,-Á^å`&ææaj[}ÊÁ,[¦•@3],ÊÁd^ææ(^}oÁæ);åÁ @[•] ãa懕Á	ΙÍÁ	HÍ Á

## (') " `CWW dUh]cbU`Bc]gY`

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OEÁ[¦ÁQ;c^\{ ãcc^}o^{\, [ã^/ā]; Ás@A[; { Á;~Ád[}\*Á` 38\Ádã^•Ása); Ás^Ásaa); Ás^Ásaa); Ás^Ásaa); Ás@Asa^|[, KÁ

Bc]gY`=bhYbg]hmfK65Ł	BiaVYf`cZhjaYg`UWWYdHUV`Y`dYf`XUm
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130	1,000
120	10,000

## (')'(`Gc]``UbX`; fcibXkUhYf`EiU`]hmi

#### Gc]`

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#### ; fcibXkUhYf<sup>·</sup>

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• @ed|Áa^Á&[{ { ãuc^å Á}[ cÁt[ Á&æĕ •^Á, æe^¦Á][ ||ǐ cāt] } Át ¦Áa^] |^cāt] } Áæ) å Át[ Á+d ã&d^ Á&[ { ] |^ Á, ão@éo@ Á &[ } ditions of the license". Á

V@^Á^\*č|æaā[}Áæ‡+[Á&[ç^¦+Áa&^}+ā]\*Áč|^+Áæa}åÁ^^+Áæ;Å^||Áæ;Å]\*Áč]\*Áæ;Å]\*Áæ;Å]×áæ\*¦Á]¦æa^+ÉÅ][||čaã[}Á&[}d[|ÉÁ æ}åÁ^ččã^{{ }}o~Á'[{ Å];å;ææ\*Á; ^||Á;;}^'+ĚÅ

# (')') K UghY A UbU[Ya Ybh

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# Regulation of Harmful and Hazardous Waste Management, Transfer & Handling No. 24, 2005:

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### Regulation of Solid Waste Management No. 27 for the year 2005:

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### Instructions for Recycling and Handling of Consumed Oils for the year 2003:

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V@ Áðj•d`&dðj} •Á•cæe\* Áðj] |^{ ^} c^å Á{ ^æ\* ¦^•Á[ ¦Á[ ðjÁ] ¦[ å`&^¦•ÉÅ] æ dði•Ác@æeÁdæ)•][ ¦ó4[ ðjÉÁ &[ ||^&cðj\*Á cæeðj} •É&d^æe{ ^} oÁ } ðe ÉÅj ðjÁ&[ { à`•d[ ¦•Éæ)} å Áæ| Áåj ða ða^&d^ Á¦ ¦Áðj å ða^&d^ Á^|æe^å Áj æ dði•Á ðj Ás@ Á cæet^•Áj -Áj ðjÁ •^Áæ) å Á^& & &jð \*ÉÁ

Ö^-ājāāj}•Á;-Á^^}^¦æ Á^~`ă^{ ^} o Ásd^ Ásd+ [Ásj8]`å^å Á`& @áse ká

- •Á Ú¦[@ààāāāā] À [ -Áåãã & @ed\* ^ Á[ -Á[āÁā] d[ Á\* ^] et ^ Å] ^c; [ ¦\ Á[ ¦Á\* ^] cãk Áce) \ Á[ ¦Á\* ` |-æ&^ Áce) å Á
  \*¦[ ` } å Á; æe^\ ¦Á^•[ ` |&^• Á[ !Á@ Á`] çã[ ] { ^} oÁ
- •Á OE[[Á],æicað•Á(,^);cā[}^åÁ§j,ÁOEica&|^Á+Á(, č•óÁ;àcæaj,Áæá/a&^}•^Á+[{ Ás@eÁT[Ò};çÈÁ
- •Á Uậ¼ ã¢ā) \* Á ão@Á[ |ãâ Aå[ { ^• cã&Á æ• c^ Áæ) å Áåã] [• æ¼ã) d[ Áo@ Á( ` } ã&ā] æ¼ã` { ]ā] \* Á ãc^• Á[ ¦ Á å[ { ^• cã&Á æ• c^ Áã Á] [ @ãa ãc^ å Á
- •Á Uā¦Á •^Áų[¦Á;}^¦\*^Áj¦[å `&cāį}Ásā;Ájk][@ãàãz^åÁşiÁų[[åÁşi¦[å č&āj\*Áşi•cãč cāį}•Á
- •Á W•^Á[, Áæ; Á[ ā]Á[ ¦Á^}^!\*^Á] ![ å šaā] } Áā Á] ![ @ãa ão å Áā; Áā] cãč cā] > ÉÁ æsa[ ¦ão Á[ ¦Á@] č ^ Á č } !^o • Áæj Áæ] ] ![ çæ/Æi Át ãç^} Á
- •Á Tãcāj\*Á;Á;Á;∮•Á;ão@Á@eeælå[č•Á;æ•c^Áæ)åÁ&@{ã&a‡•Áā;Á;¦[@ãàãc^åÁ

Q Áæáåáãā[}Ê<sup>\*</sup>\*}^¦æļÁ&[}åãā]}•Á[¦Á;āļÁ;¦[å\*&^¦÷ÉÄ;āļÁ&[||^&cā]}Å\*cæaā]}•Áæ}åÅ;āļÁ&æd:lð\*!•Áæ/Á\*. æ)åÁc@Á\*^}^læļÁ&[}åãā]}•Á[¦Á;āļÁ&æd:lð\*!•Áð]&|\*å^Á@æçā]\*Áæ)Áãâ^}cãa38ææā]}Á;\*{à^¦ÁQB&^}•^DÉÁ •`à{ãicā]\*Á[·Á\*||Á8]-{¦{æaā]}Áæà[`cÁc@Á&[{]æ}^Â;ãi@Ác@Á3&^}•^Á\*`^•cÉÁ:læ)•A;ið\*ÁœA}\*A ā)d[ÁæÁ]á&^}•^åÁ&[||^&cā]}Á\*cæaā]}Á;]/ ä)d[ÁæÁ]á&^}•^åÁ&[||^&cā]}Á\*cæaā]}Á;]/ ä)d[Aæd[A3A}\*A@A&[]|^&cā]}Å\*cæaā]}Á;]/ ä)d[Aæd[A3A}\*A@A&[]]

## (<sup>™</sup><sup>·</sup>≓ 7<sup>·</sup>9bj]fcba YbłU<sup>·</sup>UbX<sup>·</sup>GcVJU<sup>·</sup>GłUbXUfXg<sup>·</sup>

V@ÁQuơ\}æaāt }æ4265, æað &^ÁÔ[ \] [ \æaāt }ÁQQ2ÔDÁÚ^\-{ -{ \ < æð &^ÁÙæa} åæ\å•ÁQÚÙDÉÁÒ}çã[ } { ^} æ4ÉA P^æ¢@Áæ) åÁÙæ^ĉ ÁÕ ău^|āj ^•Áæ) åÁÚ \æ&@&^ÁÞ[ ơ•ÊÂ] \[ çãu^Á\* ău^|āj ^•Á[ }Á&[ } å &@i \*Á ^} çã[ } { ^} æ4ÉA [ &ãu4æ) åÁ@æ¢@Áæe •^••{ ^} o Áæ) åÁæåå\^••Áæ¢æð ĉ Át ¾e \* `^•Á[ \Å&ā-^\^} oÁ ĉ ] ^•Át -Át \[ b^&o Áæ) åÁ^ &(t \=ÉV@•^Át^\-{ \ & æ} &^Áœ) åæ\å e Áæ) åÁ\* ãu^|āj ^•Á, āl/Áu^ÁæA }Á& (t \ æ&&[ ` } oÅi ` \ að \*Á@Át\] æbæaāt }Á, \[ & ••Át \ & @ ÁU \\atimation & æd \ & að 
- •Á DG %Á QE ^ • { ^} ó <del>Áa)</del> å ÁT æ) æ\* ^ { ^} ó ∱( ÁÒ) çã[ } { ^} œ þÁa) å ÁÙ[ &ãæ þÁÜ ã \ Áa) å ÁQ ] æ&o• LÁÁ
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- •Á DG". ÁÜ^•[č¦&^ÁÒ~æ&a^}&^Áæ}åÁÚ[||čqā] ÁÚ¦^ç^}qā] LÁ
- •Á DG (. ÁÔ[ { { ` } ãô ÁP ^ ædc@ÂL)æ^ ô Ê&ee) å ÂU^ & ` ¦ãô LÁÁ
- Á DG'). ÁŠæ) å ÁOBč č ãrãuấį } Áse) å ÁQQç[|č} cæ hÁÜ^•^cq^{ ^} d.ÁÁ
- •Á DG \*. ÁÓāţ åãç^¦•ãc ÁÔ[}•^¦çææāţ} Áæ) åÁÙ \* œæãj æà|^ÁT æ) æt ^{ ^} oÁ[-ÁŠãçãj \* ÁÞæč ¦æþÁ Ü^•[` ¦&^•LÁÁ
- ●Á DG¨+.ÁQaåð\*^}[˘●ÁÚ^[]|^●LÁÁ
- •Á **DG', .** ÁÔ` |č ¦æļÁP^¦ãæet ^ LÁ

Q Áænå åãnāj } Án[Ác@ Áænà[ç^Á]^¦-{¦{ æ} &^Ár æ} å æ å • ÉA[c@ ¦Á!^|^çæ) cÁO2ÓÁ\* ă â^|āj^ • Áæ) å Á] ¦æ&ca&^Á }[c^ • Á!^|^çæ) cÁn[Ác@ Á] ¦[b/&cÁā] \* • Á] āļ|Ánà^Á!^çā?, ^ å Árā[ \* |æ) ^[ \* • |^ ÉAæ) å Á] āļ|Ánà^Á&[} • ãa^¦^ å Á -{ ¦Ác@ Á] ¦[][•^ å Á] ¦[b/&cÁ] @ ¦^Áæ]] |ã&æa) |^ ÉA/@ • ^ Ás] &|\* áA\*ā[ \* |æ) ^[ \* • |^ ÉAæ] å Á[Ác@ Á[||[, ā] \* KÁ

- •Á Õ^}^¦æµÁÔ}çã[}{ ^}œµÉÂP^æqc@éæyìåÂÛæ^ĉÁÇÔPÙDÃÕ˘ãå^|ð]^•LÁ
- Á Ú¦æ&dæxÁÞ [{ } }] كَفْ هُجْهُ { يَأْمُ ٨٤ (جو هُ اللهُ 4) أَلَّمُ ٨٤ (جو هُ اللهُ 4) أَلَّمُ ٨٤ (جو هُ مُعْهُ { يَأْمُ اللهُ مُعْمَةُ } أَلَّمُ ٨٤ (جو هُ مُعْمَةُ إَلَّمُ ٨٤ (جو مُعْمَ هُ مُعْمَةً إَلَّمَ اللهُ مُعْمَةً مُ مُعْمَةً إَلَّمَ اللهُ عَلَى اللهُ اللهُ عَلَى اللهُ اللهُ اللهُ عَلَى اللهُ اللهُ اللهُ عَلَى اللهُ عَلَى اللهُ عَلَى اللهُ عَلَى اللهُ عَلَى اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ ال المُعَلَى اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ عَلَى اللهُ عَلَى اللهُ ا
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The EBRD is committed to promoting "environmentally sound and sustainable development"  $a_{i} A_{i} c^{0} (A_{i} c^{0}) (A_{i} A_{i} c^{0}) (A_{i} A_{i} A_{i} c^{0}) (A_{i} c^{0}) (A$ 

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- •Á Tænj•d^æqíāj\*Á^}çãi[}{ ^}œqÁæ)åÁ•[&ãæqÁ•č•cænjæàājãcÁ&[}eãæ+Å\*]çãi[}{ ÅæqĺÁãæ•Á æ&cãçãæð•E¾

ÒÓÜÖÁ@æe Áæå[] & å ÁæÁ&[{]¦^@} •ãç^Á^oĄ -ÁÚÜ•Á@æeA,¦[b>&or Áæ^Á¢]^&c^å Áţ Á, ^^dĚv@ ÁÓæ) \Á ^¢]^&or Áær Á&Jå}or Áţ Á, æj æt^Á@ Á}çā[}{ ^}cæþÁs) å Á[ &ãæфÁs • `^• Áæ • [&ãæet^å Á ão@Á@ Á,¦[b>&or Á d[Á, ^^oÁ@ ÁÚÜ•Á;ç^¦ÁæÁ^æe[}æà|^Á,^¦āţ å Á, Áæã ^ĚÁ Á V@ ÁÒÓÜÖÁÚÜ•Ác@æeÁæt^Á!^|^çæ) óAţ Ác@ærÁj ¦[b>&dÊæa) å Á, @&&@ÁOERÁc^æţ Á, āļ|Á&[} •ãa^¦Áå`¦āj \* Ác@ Á Ú¦^Jãţ āj æt^ÁÒÙODEÁ;¦[&^•• Áæ^Áæ c°å Æs^|[, kÁ Á

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- •Á DF\* ÁÓāţ åãç^¦•ãc ÁÔ[}•^¦çæaāţ } Áæ; åÁÙ \* œæj æà|^ ÁT æ; æt ^{ ^} œ́[ -ÁŠãçãj \* ÁÞæč ¦æ‡Á Ü^•[ ` ¦&^•LÁ
- •Á DF+ –ÁQ åð ^} [ \* •ÁÚ^[] |^•LÁ
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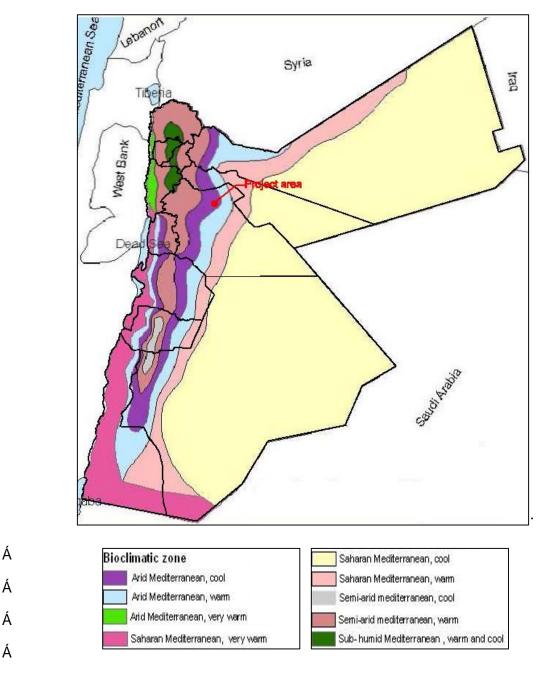
Jordan's climate varies from Mediterranean in the west, to desert in the east and south, but  $c@A_{aa}^{A} aA^{a} A^{a}  

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The country's climate is a result of both its geographical location in the Eastern Mediterranean  $|^* \mathfrak{A} \}$   $A \mathfrak{A} = A^* \mathfrak{A} A^* \mathfrak{A$ 

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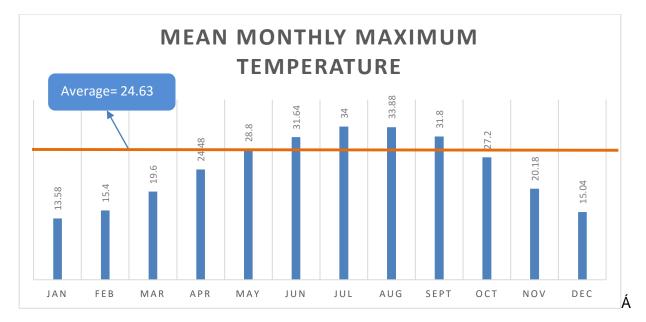
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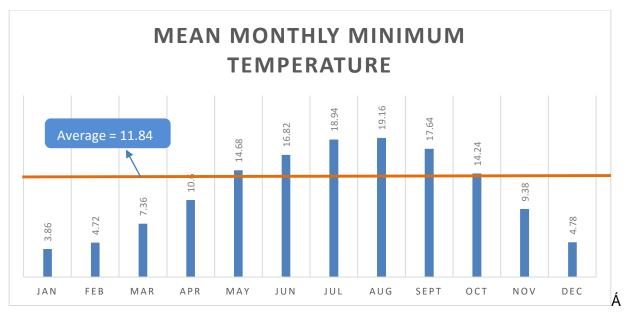
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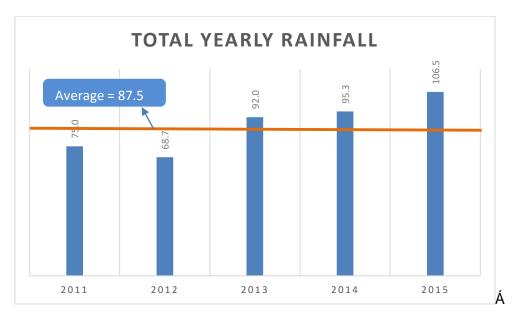
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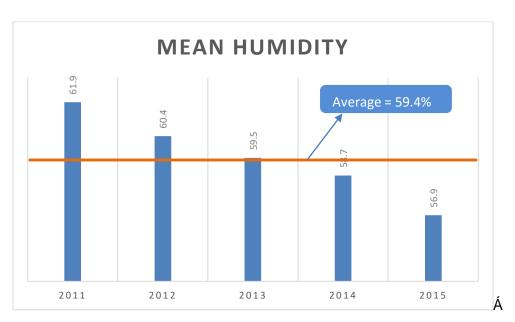


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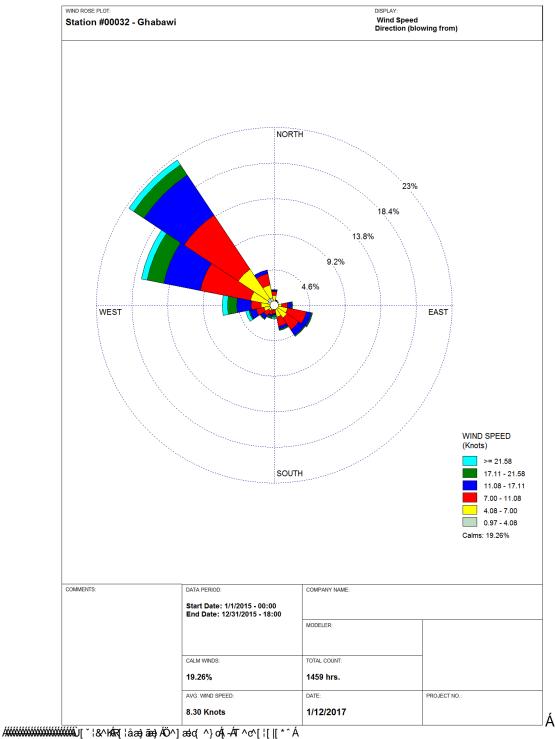
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### <u>CV^YWNjiYgk</u>Á

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### <u>A Yh cXc`c[m</u>

•Á V@ÁR[¦åæ); ãæ); Árcæ); 忦åÁ[¦Ác@Áæ{; àā?} ó‰æå Á 迢ä čÁÇRÙÁFFI €ED9€€ÎDÁ§; & čá\* á dá&o/se); åÁ&|/ækA \*čãa^|ã]^• Áæ); åÁ[, ^c@{; å•Ás@æeÁ, ^¦^Á[||[, ^åÁ;@}; Á;[}ãt[¦ã]\*Á[¦Áæ; àā?} ó‰æå Á 迢ä; áæčá&; ãæÁ ][||čææ); o•ÈÁV@Á{ ^c@{; å[|[\*^Áč•^åÁd; Á{ [}ãt[¦Á]; æbcã&č |æe^Á{; æec^¦•ÁQÚT GĚLÁæ); åÁÚT F€DÁð; Á æ{; àā?} ó‰æå Ásã & \*•^å Ásã & \*•^å Ás][, ÈÁ

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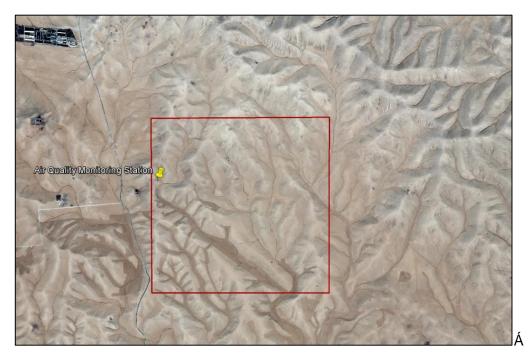
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- ËÁ WÙÒÚŒÆ;]¦[ç^åÁÚT ⊧∉ÁÇDÛÚT Á-ÁFF€GÁ-ÁFÍ€DÁ;)åÁÚT œiÁÇDÛÚT Á-ÁÉ΀JÁ-ÁFÌ HDÁÇÜ^-ÆÀ @cd • HED,\_\_\_ HÈ`]æÈ`[çEcc} Bæ(@BB&;@c\*Labet@c/\_DLÁ
- $\ddot{E}\dot{A} \quad \dot{U}|[c_{a}\ddot{a}^{A} \bullet \dot{A}^{A} a_{\theta} \dot{E} \ddot{c} \ddot{a}|^{A} \dot{A} \dot{Q}^{*}||^{A} \dot{A} \dot{a}_{\theta} \dot{a}^{A} \dot{a}_{b} \dot{a}^{A} \dot{a}^{A$
- $\dddot{A} = \Delta \left\{ \Delta \left\{ A \right\} + \Delta \left$
- $\ddot{E} \dot{A} \hat{O} [ \ caaj \bullet \dot{A} ] [ \ caaj \bullet \dot{A} a A \ o \dot{A} \ \dot{A}$

### <u>G]hY`GY`YWF]cb</u>`

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EÁV@Á5j|^oA׿{]|ā]\*Á;[ā]oAv@{`|åAsò^Ásò^ç,^^}ÁCEÈEÁ;Áçç@Ási¦^æc@3j\*Á[}^Dáse)åAiÈEÁ;Ásceà[ç^Á o@Á\*¦[`}åÁ^ç^|LÁ

ĔĂV@^Á\$y|^^oÁ;¦[à^Á@{`|åÁa^Á;[•ãa‡a}^åÁeçæÂ4[{Áœ?Á,^æskýs8a3jãĉÁ;~Á[`;8^•ÁtjÁæç[ãaÁs;lãa3j\*Á æ5áÁ;[|]ča‡a}Aji`{ ^•LÁæy}åÁÁ

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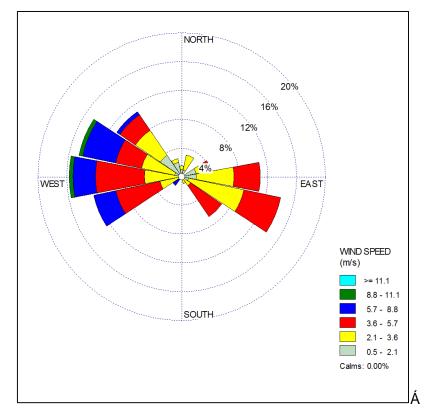
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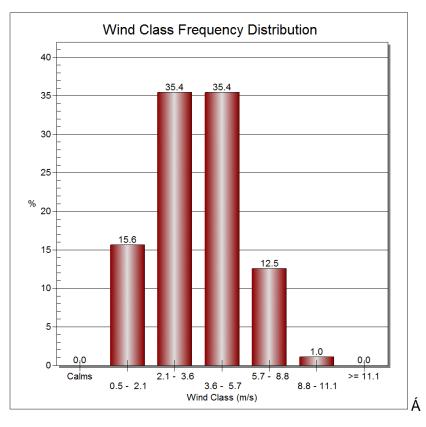
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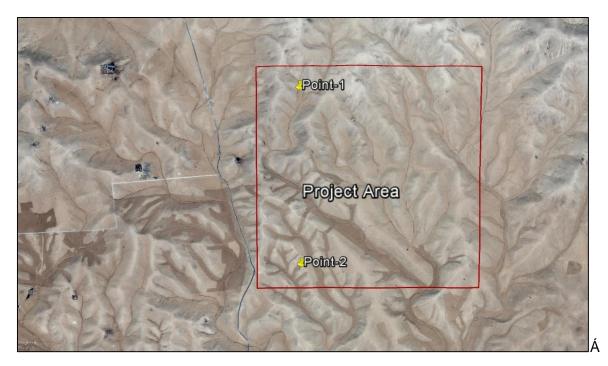
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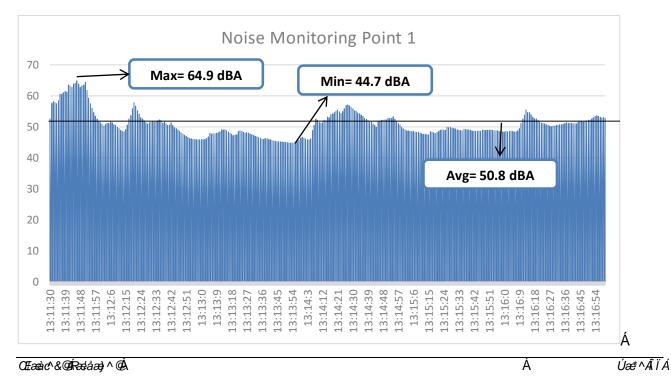
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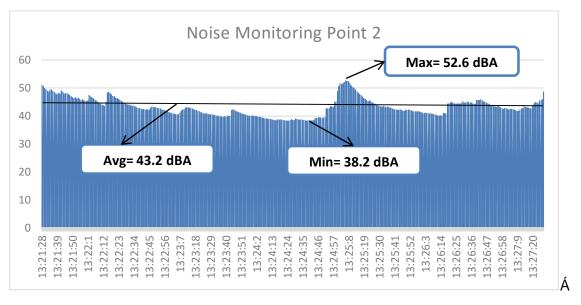


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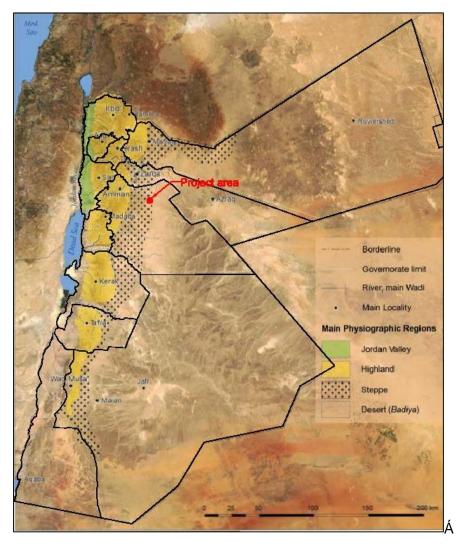
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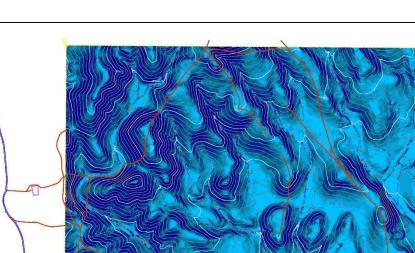
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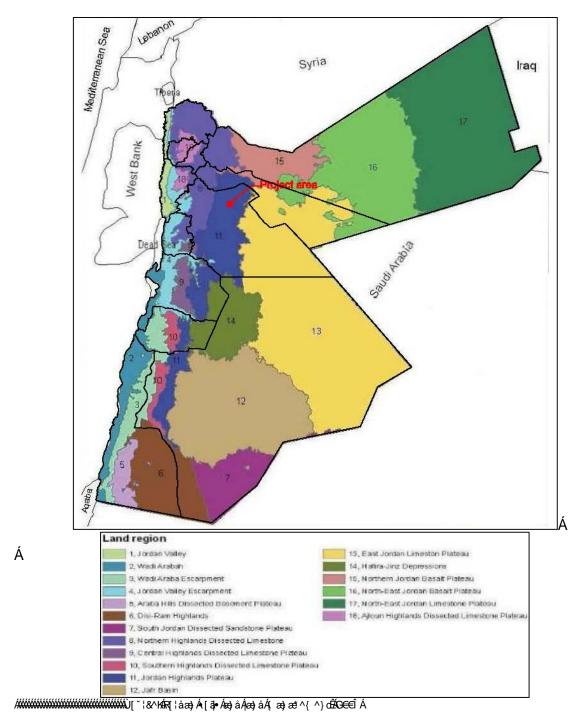
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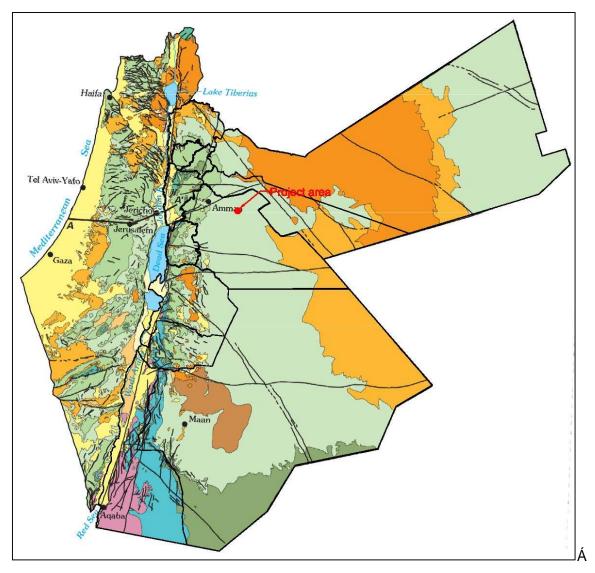
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Ù[`¦&∧há∿NÈÙÁÕ^[|[\*a‰aa∲ÂŬ`¦ç^^ÊÁ≂JJÌÁ :][ifY`&++.`;Yc`c[micZ>cfXUb`

	System/ Series	Stage	Jorda	st of n River nd Araba Unit	Jorda	st of n River nd Araba	This report	SEDIMENTARY ROCKS Unit description		System/ Series	Stage	West of Jordan River and Wadi Araba	East of Jordan River and Wadi Araba	This report	IGNEOUS AND META- MORPHIC ROCKS Unit description
many	Holocene		a.	Qa		Aluvium and Lisan Series		Soil, sand, gravel, sandstone, and congiomerate. Comprise prolific aguifer in Coastal Plain Basin. In Jordan Valley Floor	2	Holocen	e	Unit	Unit		
Quaternary	Pleis- tocene		Kurkar	Qđ		unium tan Si		Basin, alluvial fan deposits along flanks form aquifers that contain most of the freshwater of the basin.	erna	Pleis-	1	84	BA		2002020000000000
				Qk	Valley	52		In Jordan Valley Floor Basin, upper part includes mari, clay,	Quaternary	tocene					Basalt, tuff, and alkaline magmatic rocks. Major
	Discost			QI Qs	lordan V			and evaporites that inhibit groundwater flow. Lower part consists of water-bearing conglomerate, sand, and gravel.	ertiary	Pliocen	•				source of water in northern and northeastern part of region. Basalt is hydraul- ically connected with conglomerate, sandstone, marl, and chalk, Basalt
	Pliocene		Sadiye	Тр	8	Absent	-	In Coastal Plain Basin, consists mainly of clay and marl, that inhibit groundwater flow.	Tert	Miocene	•				
Tertiary	Miocene		ŝ	-		A		Marl, limestone, sandstone, conglomerate. Generally an			Senonian				
Ter	Oligocene			To				aquitard; limestone and sandstone layers are water bearing.	S	Upper	Turonian	B3			and coarse grained
	Eocene		Advat	Та		B5	-	Chalk, limestone, chert, mart. Generally aquitard; limestone layers are water bearing.	Cretaceous		Cenoma- nian				clastics form aquifers that are separated by layers of
	Paleocene		sndo		Belga	B4	a a a a a a a a a a a a a a a a a a a	Chalk, chert, limestone, marl. Limestone and chert layers are prolific aquifers in much of Jordan. Well yields are	ő	lo montes	Albain		Absent		marl and chalk. Water is generally of very good
		Seno- nian	Mount Scopus	Ka		B3 B2/A7	1 Buch	highly variable and are controlled largely by cavemous zones in the limestone that are affected by geologic structure. Flowing wells common in areas of low elevation.		Lower	Aptian	82			quality and high well yields are common.
sno	Upper	Turo- nian	2 14			Salinity increases in an eastward direction in Jordan.		Jurassic	-	B1					
Cretaceous		Ceno- manian	Judea	Kc	Allun	A1/A6		layers are prolific aquifers in Eastern and Western Mountain Basins.	Triassic		-	p€3			Metamorphic rocks, volcanic
0		Albain	۵			-		Sandstone, dolomite, marl, sand, shale, clay, sandy lime-	P	ecambria	n	p€2	G		intrusives. Water occurs in fractures in crystalline
	Lower	Aptian	Kumub	Kk	Kurnub	к		stone. Upper part mostly consists of shale and carbonates forming aquiclude; lower part mostly consists of water-bear- ing sandstone. High salinity in vicinity of Jordan Ritt Valley.				p€1	Absent		bedrock. Generally not utilized as water source.
	Jurassic		Arad	Ja	Zarqa	z		Limestone, doiomite, sandstone, mart, shale. Limestone, doiomite and sandstone layers water bearing. Important source of water in Negev, north and south Wadi Araba, and south Jordan Desert Basina. High salinity in-parts of region.							
	Triassic		Ramon	M	br pumping lifts, and mineralization of groundwater.	<u>v i i i i i i i i i i i i i i i i i i i</u>									
	Paleozoic	Limestone, dolomite and sandstone layers water bearing. Important source of water in Negev, north and south Wadi Araba, and south Jordan Desert Basins. High salinity in													

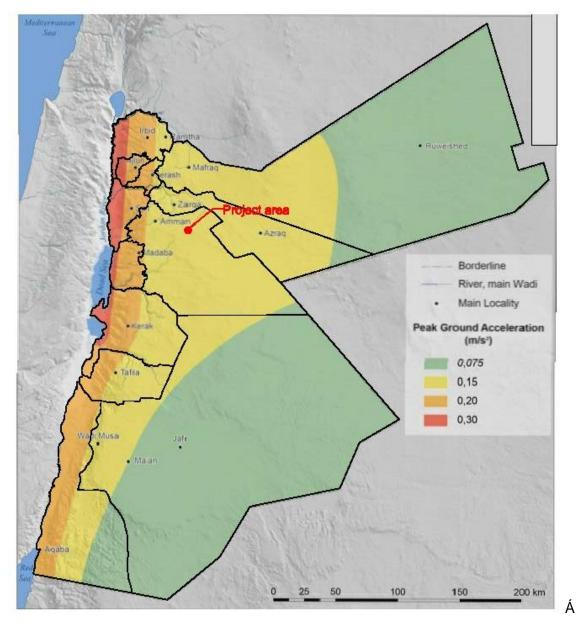
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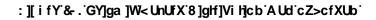
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F[ ¦åæ), Á, &&`] ât•Áv@ Á, [¦v@, ^•oA, ædoA, Áv@ ÁOE æàāæ), Á, |æe^Á, @¦^Á, [•oA, Áv@ Á&[`}d^ Áār Á[ &æe^åÁ , ãv@), Áv@ Á væà |^Á, @|-Á, ædoA, Áv@ Á, |æe^ÈA/@, Áæe^ÁÚ![or\[:[ ඞak4,24]] ¦[¢ā[ æe^\]^Åa^ç, ^^} ÁOE €ÆT æÁ q[ ÁI | CHÈEÁT ÆDÁ, æ Á&@edeæ&c^¦ã ^åÁà^ ÁOE æàãæ), ÁÙ@a\|åÁ&¦æe[}ãæaā[}Áæ), áÅæ} åÁæ} æ&Å æ&&¦^cā[}•Á, ãv@Áaæ^{{ ^}} oÁ\*č¦~^Á§jåãææ3j\*Á\*ædË, ^•oÁ&[{ ]¦^••ā]}æ4Á[¦&^•ÁQÚ^d[|^\*{ Áæ}åÁ UājÁ @æp^ÁÕã^&q[ ¦æe^ÉAÞÜOEE€ÊDĎÁ

 $\label{eq:label} U_c^{|a||} E_{0} @ A_{ac}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} = A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}^{|a|} + A_{a}$ 



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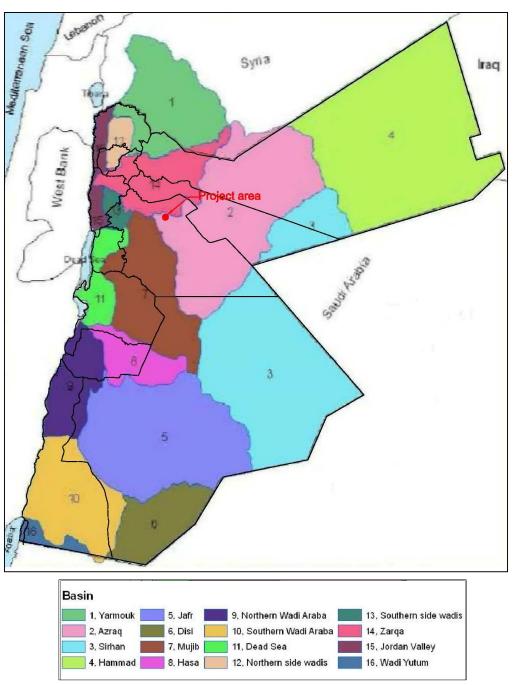
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Besides the indigenous water resources the country's renewable water resources are ¦^] |^}ãr@åÁc@[`\*@Á¦^\*ãį}æ‡Á,ææ^¦&[`¦•^•Áæ)åÁdæ)•Ëa[`}忇^Á\*¦[`}å,ææ^¦Á4,[`,ÁÇÕVZÊÁ Þææāį}æ‡ÁYææ^¦ÁTæ=c^¦ÁÚ|æ)ÊÁG€€IDÈÁYææ^¦Áå^•æ‡ājææãį}ÊA[}ÉA[}Ác@^Á[c@\_¦Á@æ)åÊA&[`|åÁà^Á &[}•ãa^¦^åÁæÁččč¦^Á[`¦&^Áį,æe^\¦Á`]]|^ÈÁ

Ó^ |[ , Áã ÁæÁå^•&¦āj cāj } Á[ ~Á•`¦-æ&^Áæ) åÁ\*¦[`}å, æe^¦Á@ å¦[ |[ \* ^ÉÁ^¢ã cāj \* Á, æe^\'Á] [ ||`cāj } Á åã &@ed\*^•Ében) åÁ^&^ãçāj \* Á, æe^¦Á`æaãcÂų[¦Á, æe^\'Á^•[`¦&^•Á^|æe^åÁv[Á[ &ææāj } Áj -Áv@ Áj ¦[b\*&dÈÁ

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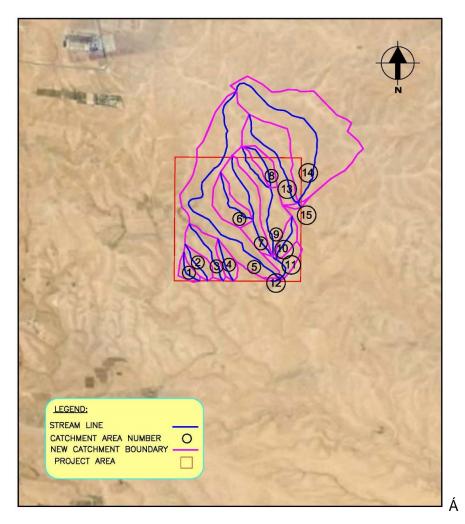
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GÁ	G€ÎÌÌ€ËÍÁ	€ÈG€ÏÁ	HFÈEÁ	Ì€ÎËÁ	€È FÁ	€È€HÌÁ
HÁ	HH€€ÍHÈÈÁ	€ÈH€Á	HGÈ€Á	FGHFÉÉÁ	FÈGHÁ	€È€GÎÁ

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ΙËæÁ	ÍHHÌHËİÁ	€ÈÉÍHÁ	FFÈHÁ	IHÌÈÁ	€ÈIÁ	€È€GÎÁ
ΙËaÁ	GÎÏGGEÊÁ	€È€GÏÁ	F€È€Á	GḮÈ€Á	€ÈGÍÁ	€ÈEI€Á
ÍÁ	GFÎ JFÏ Ï ÈJÁ	GÈFÎ JÁ	JÌĚÁ	Í€ÏÏÈÁ	ÍÈÈÌÁ	€È€FJÁ
ÎÁ	IÌG€€HÈGÁ	€ÈÌGÁ	HJÈ€Á	fi fhègá	FÈ FÁ	€È€GÌÁ
ΪÁ	FFIÌJÏÎÈEÁ	FÈFIJÁ	ÍHĒĽÁ	GFÏHËĽÁ	GÈTÏÁ	€È€GÍÁ
ÌÁ	GIÎÌFGÈÈÁ	€ÈGIÏÁ	IÎÈÁ	FGHHÈHÁ	FÈGHÁ	€ÈEHÌÁ
ÌËæÁ	GFÌJHÎÈÈÁ	€ÈEFJÁ	IÎÈÁ	FFÍ €È€Á	FÈFÍ Á	€ÈEIFÁ
JÁ	JÍGHH€ĒĽÁ	€ÈÍ GÁ	ÎIĚÁ	GIÎËÁ	GÈLÍÁ	€È€GÎÁ
F€Á	GHHG€HÈÈÁ	€ÈGHHÁ	GGÉHÁ	F€HÍËÍÁ	FÈEI Á	€È€GFÁ
FFÁ	GÍÏIÌÏÏĒĖÁ	GĚŤÍÁ	ÎJÈ€Á	GJÏ FĚÁ	GÈJÏÁ	€È€GHÁ
FGÁ	IÏII€ÍÍĽÁ	IËIIÁ	ÎJÈÁ	hFÍ JÌÈGÁ	HÈEĨÁ	€È€GGÁ
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### <u>Hcdc[fUd\mcZh\Y'7UHV(aYbh</u>''

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:][ifY'''.`Fci[\`HYffU]b`cZh\Y`Dfc^YVhi5fYU`

Þ[Árd^æ{, -{[, Átà•^¦çææā]}•Áæd^Áæçæāajæà|^Á54jÁv@Á&[}&^\}^åÁæd^æÈZ/@Á{[, •Át-Á, æåãa Á&¦[••ā]\*Á c@Áj¦[b^&oÁæd^Át[Áa^Á&[{]čo\*âÊ55jÁ[¦å^¦Át[Á&æak&`|æe∿Áx@Át]]cãjč{Árã^•Át^Áx@Á{[[åAj¦[o\*&cā]}}Á æ)åÁ{[, Ás¦æajiæ\*^Át|^{{}}orÈÁ

V@:Áæaāj}梼^^@@;åÅ;æ•Á•^åÁ[¦Á&[}å`&aāj\*Ás@;Á@å¦[|[\*a8æ¢Áčå^Á[¦Ás@;Á;¦[b^&oÁse^æÉÅ;@38.@Á ãrÁ^|æe^åÁg[Ás@:Áse^æÉ4|[]^É&aajåÁaãj^Á[;4&[}&^}dæaãj}á&ajåÁs@;Á`}[~~4&[^~a8a4}o4j;Aá@;Ásæ=ãjÈÁ

 $\begin{array}{l} V[ \acute{Asade} & [aec^{As}@\acute{Asa} & ^{As} & ] & & & \\ V[ \acute{Asade} & [aec^{As}@\acute{Asa} & ^{As}] & & & \\ V[ \acute{Asade} & [aec^{As}@\acute{Asa} & ] & & & \\ V[ \acute{Asade} & & & & \\ V[ \acute{Asade} & & & \\ V[ \acute{Asade} & & & & \\ V[ \acute{Asade} & & & & \\ V[ \acute{Asade} & & & & \\ V[ \acute{Asade} & & & & \\ V[ \acute{Asade} & & & & \\ V[ \acute$ 

Bc"	) 'A =B'	%\$` A=B`	&\$`A <b>₌</b> B`	' \$`A <i>=</i> B`	% <f<sup>`</f<sup>	&` <f`< th=""><th>'</th><th>*</th><th>&amp;(</th><th>MYUfg<sup>.</sup></th></f`<>	'	*	&(	MYUfg <sup>.</sup>
FÁ	FÈLÁ	GÈ€Á	HÈ€Á	ΙĚÁ	ÎÈ€Á	F€Ì€Á	FÍÈ€Á	H€È€Á	HJĖĽÁ	ÍJÁ
GÁ	GÌŦÁ	HÈEÁ	HÈÈÁ	IÈ€Á	ΙĖΪÁ	IÈÁ	ÍÈÌÁ	FFÈÁ	FÎ Ě Á	΀Á
HÁ	НÈЭÁ	١ÈÁ	JÈÁ	F€ÈÉÁ	FGÈLÁ	FGÈL Á	FIÈÍÁ	FÎĖĽÁ	ÍÌÈÈÁ	Î FÁ
١Á	GÌĽÁ	HÈGÁ	HÈÈÁ	ΙÈĹÁ	F€ÈÁ	FG∄ÍÁ	FÍÈ⊞Á	FJË Á	HFË Á	ÎGÁ
ÍÁ	GÈ€Á	GÊÌÁ	HÈHÁ	HĚÍÁ	ÍÈ€Á	ΪÈĒÁ	ÌÈ€Á	FÎÈ€Á	HÍĒÌÁ	ÎHÁ
ÎÁ	FÈÌÁ	GĨÌÁ	HÈÈÁ	IÈGÁ	ΪÈΕÁ	F€ÌËÁ	FÍ Ě Á	ĠĚÁ	HUÈGÁ	ÎIÁ
ΪÁ	GÌÈÁ	HÈLÁ	ÍÈHÁ	ÍĚÁ	ÍÈÁ	F€ĽÍÁ	FGÈHÁ	FÌÈÁ	НÈÁ	ÎÍÁ
ÌÁ	ΪÈÁ	JÈÁ	F€ÈÁ	FHĒĽÁ	FΪĚÁ	FÌÈ€Á	fì ÈGÁ	ĠĖÁ	ÎÎÈCÁ	ÎÎÁ

Bc"	) 'A =B'	%\$` A=B`	&\$`A=B`	'\$`A <b>₌</b> B`	%< F <sup>`</sup>	&` <f`< th=""><th>' <sup>:</sup><f<sup>:</f<sup></th><th>*</th><th>&amp;(</th><th>MYUfg<sup>:</sup></th></f`<>	' <sup>:</sup> <f<sup>:</f<sup>	*	&(	MYUfg <sup>:</sup>
JÁ	GÈÏÁ	ΙĚÁ	ÎÈÁ	ÎÈÁ	ÏÈ€Á	FGÈÏÁ	FÍÈ⊞Á	G <b>-È</b> ÉÁ	΀ÈÁ	ÎÏÁ
F€Á	HÈGÁ	HÊÊÁ	١ĚÁ	ÍÈÁ	ΪÈÁ	ÌĚÁ	ÌÈÌÁ	FFÈ Á	I€ÈÁ	ÎÌÁ
FFÁ	ΙËÁ	ÌÈGÁ	JÈÁ	F€ĽÍÁ	FFÈGÁ	FFĚ Á	FŒÐÁ	FJĚÁ	ÎÎÈEÁ	ÎJÁ
FGÁ	GÌCÁ	IÈFÁ	IÈGÁ	IÈGÁ	ÍĚÁ	ÏÈ€Á	ÌÈFÁ	F€ÌÈHÁ	GHÈ€Á	Ϊ€Á
FHÁ	HÈLÁ	IÈGÁ	ÎÈÁ	ÌÈHÁ	JËÁ	FÍ ÈFÁ	G€È€Á	H€ĽĚÁ	ÎÎÈEÁ	ΪFÁ
FI Á	GĒÌÁ	HÈFÁ	ÍÈ€Á	ÍÈ€Á	ÏÈGÁ	FŒÌÁ	FI ÈFÁ	FI ÈFÁ	GHĒĽÁ	ΪGÁ
FÍ Á	١ÈÁ	ÍÈÁ	ÎÈGÁ	ÎĒĂ	ΪÈÁ	FFÈGÁ	FIÈHÁ	FIÈÍÁ	HJĚ Á	ΪΗÁ
FÎ Á	GĚÁ	IÈ€Á	١ĚÁ	ΙËÁ	ÌÈ€Á	FFÈ Á	FHÈ€Á	GÍÈ€Á	ÏGÈ€Á	ΪΙÁ
FΪÁ	GÌŦÁ	GÈ⊒Á	ÍËÁ	ÌÈ€Á	FFĚ Á	FJÈ€Á	GÍÈ€Á	HÏĚÁ	IÎĚÁ	ΪÍÁ
FÌ Á	GĚÁ	HÈ€Á	HÈLÁ	ΙËÁ	ÌÈHÁ	FŒÉÁ	FJËÁ	G <b>HÈ€</b> Á	ΗÈÁ	ΪÎÁ
FJÁ	GÈJÁ	HÈLÁ	HĒĖÁ	IÈÁ	ÏÈ€Á	FFÈFÁ	FΪĚÁ	ĠÏÈGÁ	HHÈ€Á	ΪΪÁ
G€Á	FËÁ	GĚÁ	HĚÍÁ	IÈÁ	ÎÈ€Á	JĚÁ	FFÈ Á	FJĒŔ	HFÈJÁ	ΪÌÁ
ŒÁ	ΪĒΪÁ	F€ĽÍÁ	FÍÈÌÁ	FJÈFÁ	ŒÈÁ	GFÈLÁ	GHĒÌÁ	IIÈ€Á	JŒÌÁ	ΪJÁ
GGÁ	GÈ⊒Á	HÈLÁ	IÈGÁ	ÍĚÁ	ΪĚΆ	F€ËÁ	FFĚ Á	G∓ÈLÁ	ΪΗΕΪΆ	Ì€Á
GHÁ	FÈLÁ	GÌĽÁ	IÈGÁ	IÈHÁ	ÎÈÁ	JĒŔ	FFĚ Á	FGÈGÁ	G€ÈÈÁ	Ì FÁ
ЯÁ	IĒÁ	ÏÈ€Á	FFÈ€Á	FGÈGÁ	FŒÐÁ	FIÈÍÁ	FÍÈ€Á	FÍÈ€Á	HFÈHÁ	ÌGÁ
ấ Á	HÈHÁ	IÈFÁ	ÍÈÁ	ΪÈŦÁ	F€È€Á	FIÈÁ	FJÈ€Á	ĠĖĂ	ÍÏÈGÁ	ÌHÁ
Ĝ Á	FËÁ	GÌHÁ	HÈÈÁ	IÈÁ	ÎËÁ	F€ËÁ	FIÈHÁ	FÌÈEÁ	ĠÊÁ	ÌIÁ
ĠĂ	GÈLÁ	GËIÁ	HÈLÁ	IÈHÁ	ÎÈÁ	FFÈ€Á	FÍËÍÁ	G€ĒÌÁ	ÍGÈÌÁ	ÌÍÁ
ĠÁ	ΙĒΎΆ	ΙËÁ	ΙËÁ	ÍÈ€Á	ÎÈGÁ	FFÈ€Á	FIÈHÁ	FÌÈHÁ	ΙÍÈΕÁ	ÌÎÁ
GJÁ	ÎÈFÁ	ÌĚÁ	FIÈ€Á	FÍÈÁ	FΪÈĹÁ	FÌÈEÁ	FÌÈEÁ	FÌÈEÁ	ĠÐÁ	ÌÏÁ
H€Á	GĒÌÁ	HÈGÁ	IÈ€Á	ÍÈGÁ	ΪĚÁ	FHÈ€Á	FÌÈÁ	GJÈ€Á	Î GÈ∓Á	ÌÌÁ
HFÁ	ÁÁ	Á	ΙĒ̈́Á	ÏÈGÁ	ÌÈ€Á	ÌĒÍÁ	JÈÁ	FŒÉÁ	gí Ègá	ÌJÁ
HGÁ	ÁÁ	Á	GÈLÁ	HÈ€Á	ΙĒΫ́Á	ÏÈ€Á	ÌÈGÁ	FGÈ€Á	FÌÈÌÁ	J€Á
HHÁ	ÁÁ	Á	ÎÈÁ	ÎÈÁ	ÎÈÁ	ÏÈ€Á	ÌÈÁ	JÈ€Á	FHÈÈÁ	JFÁ
НÁ	ÁÁ	Á	FÈÁ	GÈ€Á	IÈ€Á	ΪĒΪÁ	JÈÁ	fïÈGÁ	H€TÊÁ	JGÁ
HÍ 'Á	ÁÁ	Á	Á	Á	ÁÁ	Á	Á	Á	Á	ÁÁ
HÎÁ	Á	Á	FÈŘÁ	HÈGÁ	HÈÈÁ	ÍÈ€Á	ÎÈÁ	JÈGÁ	JÈĂ	JI Á
Η̈́Á	ÁÁ	ÁÁ	ÍÈ€Á	ÍÈ€Á	ÍÈ€Á	ÍÈÁ	ÍÈÁ	ÎÈGÁ	ÎÈÁ	JÍ Á
ĤÁ	Á	Á	Á	Á	ÁÁ	Á	ÁÁ	Á	Á	Á
ЫÁ	Á	Á	GÈCÁ	HÈGÁ	IÈÁ	ÏÈGÁ	JÈÁ	FΪÈÁ	GIÈGÁ	JÏ Á
I€Á	ÁÁ	ÁÁ	Á	Á	ÁÁ	ÁÁ	ÁÁ	ÁÁ	ÁÁ	ÁÁ
I FÁ	ÁÁ	ÁÁ	A ÉD	HÈLÁ	IÈGÁ	IÈÁ	ÍÈÁ	ÏÈGÁ	FHÈLÁ	JJÁ
Á										

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<sup>H</sup>ÁTã•ậ\*ÁÖææaÁ

<b>K Uhyf Myuf</b> Á					8 i fUhjjcb <sup>:</sup>				
	) <sup>:</sup> a ]b <sup>:</sup>	%\$`a ]b`	&\$`a ]b`	' \$`a ]b`	%∖ f <sup>∙</sup>	&`\ f`	' '\ f	* '\ f`	<b>&amp;(</b> `\f`
A YUb <sup>.</sup>	HÈÈËÏÁ	IÈ₩Á	ÍÈGHÁ	ÎÈÈÎÁ	ÌÈFÍÁ	F€ÈÏÁ	FHÈÈ€Á	FJÈFÏ Á	HÌ È̈́JÁ
A YX]Ub	GÈÌ€Á	HĚĚ€Á	IÈ€€Á	ÍÈ€€Á	ΪÈΞÍÁ	FFÈ€€Á	FI ÈH€Á	FÌ ÈF€Á	HÈ€Á
AcXY	FÈÈ€Á	HÈĒ€Á	HÈÈ€Á	IÈ€Á	ÎÈ€€Á	FGÈÌ€Á	FI ÈH€Á	FŒÈ€Á	ÎÎÈĒ€Á
<ufa "ayub"<="" th=""><th>GÈGCÁ</th><th>HĒĽGÁ</th><th>HÈËÏÁ</th><th>IÈĽÍÁ</th><th>ÎÈÏÁ</th><th>JÈIJÁ</th><th>FFÈ GÁ</th><th>FÍÈÍÁ</th><th>ġ Èŧ</th></ufa>	GÈGCÁ	HĒĽGÁ	HÈËÏÁ	IÈĽÍÁ	ÎÈÏÁ	JÈIJÁ	FFÈ GÁ	FÍÈÍÁ	ġ Èŧ
; Yc "A YUb <sup>:</sup>	GÈÌÍÁ	HÈÌGÁ	IÈGÁ	ÍÈHÏÁ	ΪÈΕΗΆ	F€ÈCCÁ	FGÈÌÏÁ	fï È <b>f</b> á	H <b>HÈ</b> JÁ
GH"8 Yj "	FÈÌ€Á	CHÈCCÁ	hègi á	HÈÈÌÁ	HÈÌIÁ	IÈ€€Á	IÈÍÁ	ÌĚÏÁ	G€ÈÈJÁ
G_Yk <sup>·</sup> 7cYZ	FÈHÏÁ	FĚÍÁ	FÈÌHÁ	FÈÌÁ	FË€Á	€Ť FÁ	€È€Á	ÀÎ∄€	€ĒŘFÁ
JUf]Uhi7cYZ	€ĽÍIÁ	€Ť FÁ	€ÈÌGÁ	€΀Á	€ÈÌÁ	€ÌĤÍÁ	€ÌHÍÁ	€ÈÍÁ	€ĚĽHÁ
7 cibhifhfł≟	HFÁ	H€Á	HJÁ	ЫÁ	HÌ Á	ЫÁ	ЫÁ	ЫÁ	ЫÁ
fYXiWYX`aYUb`	€ĒĽHÏ FÁ	€Ť HÎ GÁ	€ĚIHÁ	€ĚIHÁ	€ĚIHÁ	€ĚIHÁ	€ĚIHÁ	€ĚIHÁ	€ĚIHÁ
fyxiW/X`G8`	FÈFÍ JÁ	FÈFG Á	FÈFHÌÌÁ	FÈFHÌÌÁ	FÈFHÌÌÁ	FÈFHÌÌÁ	FÈFHÌÌÁ	FÈFHÌÌÁ	FÈFHJÁ

### HUV`Y`%.`GHUHjgHjWU`5bU'mg]g`cZG\cfh8ifUHjcb`5bbiU`8UHU'gYf]Yg`cZDfYWjd]HUHjcb`Uh5aaUb` 5]fdcfhi

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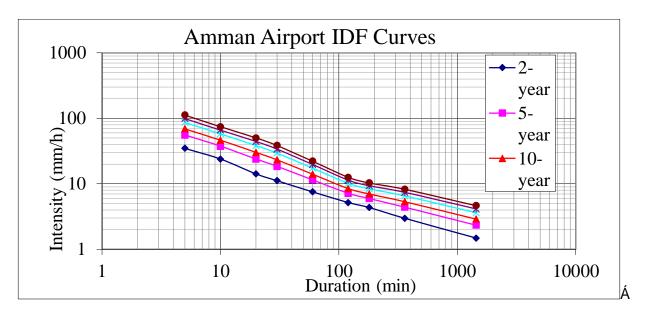
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HUV`Y`%-.`FU]bZU``=bhYbg]hmQa a #LQ28 i fUh]cb`Qa ]b'Q' ': fYei YbWmQnYUfQUh5a a Ub`5]fdcfh

8 i fUhjjcb fa]bŁ	F Yhi fb DYf]cX fhfłż					
	&	).	% <b>\$</b> `	&;) <sup>·</sup>	)\$`	% <b>\$</b> \$`
).	ΗÈΪÁ	ÍÍĚÌÁ	ÎJÈH€Á	ÌÎËÊGÁ	JJÈÌÁ	FFOÈCHÁ
% <b>\$</b> `	GHÈ)ΪÁ	HÏ Ě FÁ	IÎÈÌÁ	ÍÏÈÌFÁ	ÎÎÈEFÁ	ΪΙĚΊΆ
<b>&amp;\$</b> `	FI ÈFÏ Á	GHÈÌÍÁ	H€ÈCÏÁ	hì ÈHĩ Á	IIÈHUÁ	Í€ÌHÍÁ
<b>'</b> \$`	FFÈFÌ Á	FÌ Ě€Á	GHÈH Á	GJÈÎÁ	HIÈ€FÁ	HÌ Ế FÁ
*\$`	ΪĚ́ΙÁ	FFÈÎÁ	FIÈEÎÁ	fï <b>Èh</b> á	FJËÌÁ	GGÈ€Á
% <b>&amp;\$</b> `	ÍÈFÏÁ	ΪÈΕÎÁ	ÌÈÌÁ	F€ÈFIÁ	FFÈHÌ Á	FGÈÌ€Á
%\$`	IÈHÍÁ	Í ÈÎ Á	ΪÈ€GÁ	ÌÈHÏÁ	JÈHÎÁ	F€ÌHÍÁ
'*\$`	GÈ∃ÏÁ	IÈ€Á	ÍÈHÁ	ÎĚHÁ	ΪÈ̈́FÁ	ìÈcìÁ
%(\$`	FÈÌÁ	GÌHÁ	CÈ€Á	HÈÌFÁ	IÈFIÁ	IÈÌÍÁ

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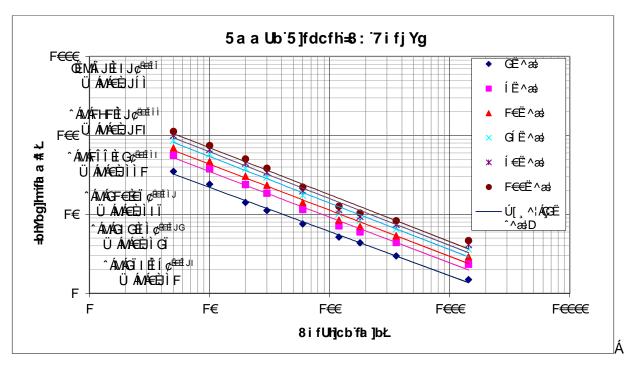
- Á
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:][ifY''(.`FU]bZU``=bhYbg]hmž8ifUh]cb'/ `:fYeiYbWhi7ifjYg`Uhi5aaUb`5]fdcfhi

W∮āj\*ÁHUV`Y"%+Ásejå⊕¦Á][ifY" (Ás@Ás^•oÁãoÁs^}åÁjā^ÁsæjÁs^ÁsæjÁs^Ás¦æ;}Á{[¦Ás@Áæaājæqi/Ásjc\*}•ãaā)•Á æjåÁajåÁs@Á~ĭ~æaāj}ÁsejåÁ/\*¦^••āj}Ás[^~a8a?}oÁse Ás@^ÁsæjÁs^Á\*•^åÁsjÁs@Ása]æaāj}Á{j~Ás@Á ¦æaāj~æqi/Ásjc\*}•ãaā?•Á^|^çæajoÁs[Ásej^Ásāj^Ásāj ^Áj~Ás[}&^}dæaāj}ÈÁ

Q,Á][ifY")Ác@Áa^•oÁaóásáa díaa ča‡}ÁQ;[, ^¦Ád^}åÁj^DÁ{;¦Ác@ÁOÖØÁ&č¦ç^•Á(-ÁOE; { æ)ÁOE3][¦ÓÆÁ] ]¦^•^}c^àÈÁ



:][ifY').`6Ygh:]h8]ghf]Vih]cb`fDckYf`HfYbX`@]bYL2cf`h\Y=8:`7ifjYg`cZ5aaUb`5]fdcfh



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5fYUBc"	7 cbWYbhfUhjcb¨HjaY`HW fa]bŁ	&!mYUf`	) !m <b>YU</b> f`	%\$!m <b>YUf</b> `	&) !mYUf`	) \$!mYUf`
FÁ	F€Ì€€Á	GÎÈ IÁ	IŒÈ€GÁ	ÍJÈEÏÁ	ΪÍÈΪÁ	ÌÏĖĚHÁ
FËæÁ	F€Ì€€Á	GÎÈIÁ	IGÈ€GÁ	ÍJÈEÏÁ	ΪÍÈΪÁ	ÌÏĚ́HÁ
GÁ	FFÈ FÁ	GHÈFÁ	HÎËHÁ	ÍGÈ€ĨÁ	ÎÏÈEÏÁ	ÏÏÈGÌÁ
HÁ	FJÈEHÁ	FÍĖÏ€Á	g þí á	hî Èghá	IÎĖÌJÁ	ÍIÈ€HÁ
ΙÁ	FQĚÍHÁ	GGÈ€GÁ	H ÈJÁ	IJĖĽÍÁ	ÎIÈEHÁ	ÏHBÈÌÁ
IËæÁ	F€Ì€€Á	ĠÈIÁ	IGÈ€GÁ	ÍJÈEÏÁ	ΪÍÈΪÁ	ÌÏĖĚHÁ
ΙËaÁ	F€Ì€€Á	GÎÈIÁ	IGÈ€GÁ	ÍJÈEÏÁ	ΪÍÈΪÁ	ÌÏĚ́HÁ
ÍÁ	ÎHÊHÏÁ	ÍÈJGÁ	JÈGÁ	FI Ě GÁ	FJÈ€GÁ	GFÈJFÁ
ÎÁ	GEEÈÏÁ	FIÈÌÁ	GHÈH Á	H È€GÁ	IIÈEÏÁ	Í€ËÌÁ
ΪÁ	HEREÉÁ	F€ÈÌIÁ	fï Ègi á	GÍĒÌ€Á	HHÈGJÁ	HÌÈHÍÁ
ÌÁ	FÎÈÏÁ	FÏÈÌÍÁ	ĠÌÈEÍÁ	I€ÈHÁ	ÍŒÈGÎÁ	΀ÈEFÁ
ÌËæÁ	FÍ È JÁ	FÌÈIÁ	Giði Á	IGÈJÁ	ÍÍĚGÁ	ÎHÈJÏÁ
JÁ	HGÌF€Á	F€ÈÈÌÁ	FÎ ÈH Á	GÈHÍÁ	HFĒÌÁ	HÎĔ€Á
F€Á	FÏ ÈGÁ	FÎÈJÁ	GÎÈG€Á	HÏÈJGÁ	IJÈEÎÁ	ÍÎĚĽGÁ
FFÁ	HUÈFÍÁ	ÌÈĽÍÁ	FHÈIFÁ	G€ÈÈIÁ	ĠÏ ÈH€Á	HFÈLÍÁ
FGÁ	IFÈIÁ	ÌÈGJÁ	FHÈÈÌÁ	FJÈJ€Á	Я́ ÈÏ Á	GIÈIGÁ
FHÁ	ĠĔÏÁ	FFÈJFÁ	FÌÈJHÁ	Ġ ÈÍ Á	HÎÈH€Á	IFÈÌHÁ
FI Á	I FÉHÍ Á	ÌÈHÏÁ	FH <b>ÈF</b> Á	G€EÈÈÌÁ	GÎÈĐ€Á	H€ÈÈÌÁ
FÍ Á	l i ě i Á	ÏÈÌÁ	FGÉĽHÁ	FÌ ÈÌ Á	GHÈÌÁ	ĠĚÍÁ

HUV`Y`%.`FU]bZJ``=bhYbg]h]Yg`fY`UhYX`hc`8i fUh]cb`UbX': fYei YbWni

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#### HUV`Y`%. 7 ca di hYX`8 Yg][b': `ccXg`FY`UhYX': fYei YbWhi

5fYUBc"	FibcZZ7cYZZJWJYbh	&!mYUf	) !m <b>YU</b> f`	%\$!m <b>YUf</b> `	&) !mYUf	)\$!mYUf`
FÁ	€ÌHÍÁ	€ÈÈÈÌÁ	€ÈHJÁ	€ÈĒJÎÁ	€ÈÉÍ GÁ	€ÈGJ€Á
FæÁ	€ÌHÍÁ	€È€IFÁ	€ÈÉÎIÁ	€È€JFÁ	€ÈFFÏÁ	€ÈHÁ
GÁ	€ÌHÍÁ	€ÈÎÍÁ	€ËHJÁ	FÈ€IÏÁ	FÈHIJÁ	FĚÍIÁ
HÁ	€ÌHÍÁ	€ĽÍ€ÍÁ	€È€FÁ	FÈFÎ GÁ	FĚ€ÍÁ	FÈÌHIÁ
ΙÁ	€ÌHÍÁ	€ÈGÍÌÁ	€Ì€JÁ	€ÉÌGÁ	€ÈľÍ€Á	€ÈÎIÁ
ΙæÁ	€ÌHÍÁ	€ÈÈHÏÁ	€ÈGFÌÁ	€ÌHEÏÁ	€ÈHUI Á	€ÈÍIÁ
I àÁ	€ÌHÍÁ	€È€ÎJÁ	€È€JÁ	€ÈÉÍHÁ	€ÈĒJÏÁ	€ÈGCÏÁ
ÍÁ	€ÌHÍÁ	FÈGÍ€Á	FÈÌÌÁ	HÈ€ÎGÁ	IÈ€FFÁ	IÈÌGFÁ
ÎÁ	€ÌHÍÁ	€ĒÌÌÁ	FÈ€JIÁ	FĚJIÁ	GÈEÎÍÁ	GÈHÌ€Á
ΪÁ	€ÌHÍÁ	FÈGFFÁ	FÈIGÍÁ	GÈÌ΀Á	HÈËFÌÁ	IÈGÌIÁ
ÌÁ	€ÌHÍÁ	€ÈGÁ	€ĒÏHÁ	ÆÌÏ€Á	FÈGÍIÁ	FÈIÍÁ
ÌæÁ	€ÌHÍÁ	€ÌEFÁ	€ĒĪHÏÁ	€ÈÈFÍÁ	FÈFÌ GÁ	FÈHÎ GÁ
JÁ	€ÌHÍÁ	€ÈÍGÁ	FĚ FHÁ	GÈGÍIÁ	GÈIHHÁ	HÈHÏJÁ
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For the design of diversion channels, wherever applicable, the Manning's Equation is normally  $\check{} \bullet \land a \check{E}$ 

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<sup>1</sup> ÁÞ[ơ káy æitäFGÁná Ázdák]{à ặ) ænặ]} Ábà^ç^^} Ábà[ơ@llí Áce) á ÁFFÁ, æitä Ás@ænÁ[&æe^à Ábá[,] • d^æti Áf`or ãa^Ás@eA;¦[b/&oÁse/æÈÁ

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- •Á <u>H\Y'8 YYd'5ei ]Z/f'7 ca d`YI</u>kÁ/@ā Áā Á[ :{ ^åÁ:[ { ^åÁ:[ { ^åÅ:[ { ^åÅ: Å; `}} å Åæ; Á; }^A; }āÁ ā; Á@: Á[ ` @ Áæ; å Å; [ Á }āæ Á§; Á@: Á; [ ' 0@: A] æ æ \*å Åa ` Á@&&; Á@; ^•q; }^Aæ; å Å; æ |Áæ; ^!•ÈÁ
- •Á <u>H\Y`A]XX`Y`5ei]ZYf`7cad`YI</u>ÁÇ@^Á`]]^¦Áæ)åÁ{ ãåå|^Á&¦^œ&^[`•Á&[{]|^¢D¢ÁV@ěA &[}•ã@A,Áã ^•q}}Å&[[{ ã^Éã æ|Áq}^Aœ}åA&@¦ó&^å•ÈÁ

QÁRĮ ¦åæ) Ék\* ¦[`}å, æc^¦Áã Á'^&@eb\*^åÁ^ão@¦Áà^Áo@Á\*^^] æt^ÁĮ Áœá\* {æļÁ]^¦&^}æt^ÁĮ Áďį œdÁ rainfall into the ground, or through groundwater inflow from Syria (referred to as "transË boundary flow", in which water resourc^•Áæ'^Á @eb\*^åÁ, ão@be}[o@'¦Á&[`}d^DÉUo@'¦Á§, -{[, •Áæ'^Á c@Á^•`|oÁ, Á^č'}}Á[[, •Á![{ Áš!â æaā]}ÊA^æ •Á'[{ Áā]^•ÊA^•^!ç[ã•Éæ}åÁ, æc', æc'¦Ás^æ(^}oÁ ] |æ}o•ÈEÕ'[`}å, æc'¦Á[`of[, •Áæ'^Á'[{ Áœè•dæ&cā]}Áà^Á]`{ ]ā]\*Á, ^||•Éæ]¦ā]\*Áæ}åÁææ^Á+[[, Á åã &@eb\*^ÁÇÕVZÉPYTÚËY æc'¦ÁÜ^•[`¦&^•Á§, ÁR] ¦åæ}ÉGEEDÉA

Twelve groundwater basins are identified having a total renewable annual supply "safe yield" [Ásæ][čớG]€ÁTÔTÈV@Ásãdãačdậ}}Á;Ás@Á'¦[č}å, ær\Ásæð;●ÁsÁ@,}Á\$jÁ **][ifY'+**'Á

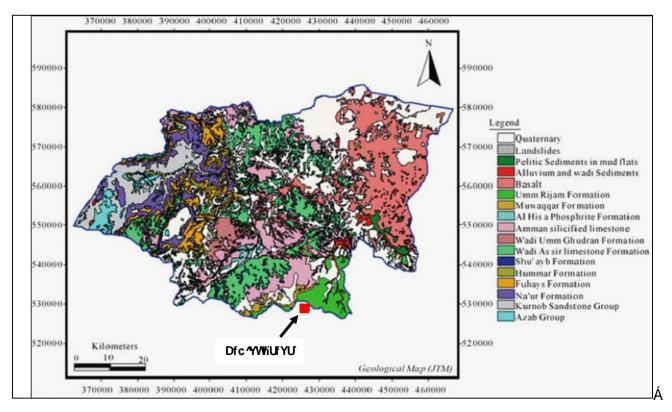
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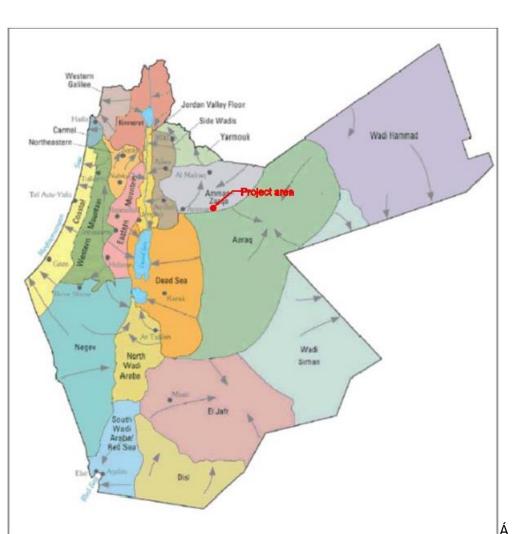
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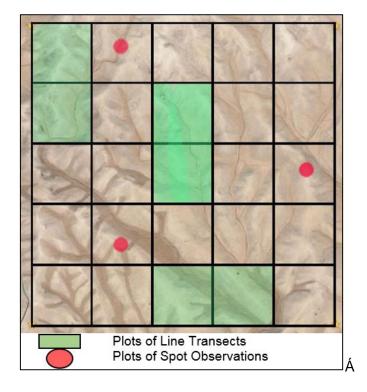
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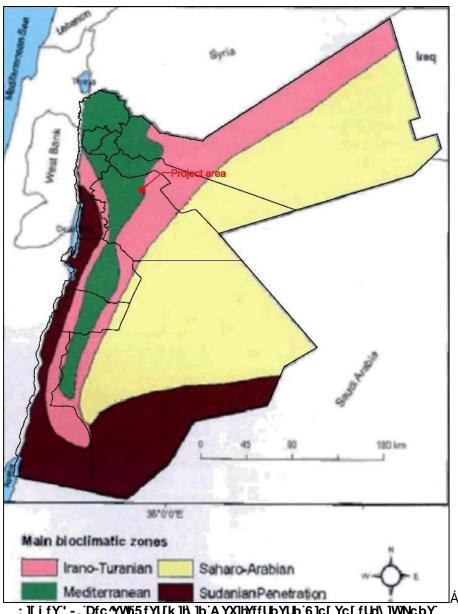
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- •Á Gdch C VgYfj Uhjcb HYW bjei Y. Ác@á Á( ^c@ áÁ æ Áæ) ] |a&æà|^Á[ ¦Áàāå•ÉÁ @a&@Á æ Á ã] ] /{ ^} c^à Á[ } ãc@ [[ \*ã cé[ Áa^-ā] ^ ÁæÁã¢^â á/[ &ææā] } Át Á^8[ ¦å Á@ Á` { à^ ¦ Áa} å Á] ^ &ã • Á [ -Áàāå•Á& [ • Ác@æcÁ+] [ cÁ ãc@a Ác@ Á] [ • •ãa |^ Á[ à• ^ ¦çææā] } Á!æ) \* ^ Á` •ā] \* Áàā] [ &` |æ• Át Á identify birds' species. Á

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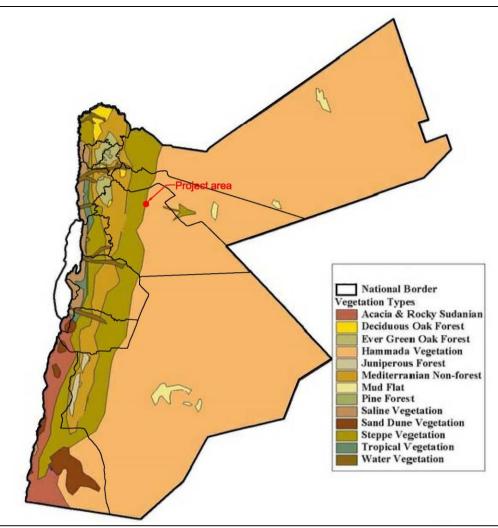
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GWYbhjZjWBUa Y 7 ca a cb<sup>-</sup>BUa Y<sup>-</sup> :Ua]`mi GhUhi gʻ Ùæ) å ÁÔæcÁ U}Ác@A\$c^¦\*^Ái-Á Ø^|ãÁ æ\*ælãæÁ Ò¢cā}&cā[}Á <mVb]XUY P^æ?}æ#Ä Ùdāl^åÁ@^}æÁ Þæcaãi}æ∉|^Á V@^æe^}^åÁ X[¦{ ^|æ/i^\*`•}æ/i Tælà|^åÁÚ[|^&æeÁ X\*|}^¦æà|^Á AighY1XUY T^||ãc[¦æ4&æ]^}●ã Á P[}^^AÓæå\*^¦Á Þæcaí}}æ∳^Á V@^æe^}^åÁ DfcWUj]]XUY Ú¦[&æãaA&a]^}•ãÁ P^¦æ¢¢Á Þæcaã[}æ∉|^Á V@^aee^}^åÁ 6 cj ]XUY Ôæd¦æk6ba}^¢Á Þ`àãæ) ÁQa^¢Á Þæcaí}}æe|^Á Ò}åæ}\*^¦^åÁ < mghf]WJXUY P^∙dã¢Á§åã&æÁ Q,åãæa),Á&¦∧∙c∿åÁ,[¦&ĭ]ā],^Á X\*|}^¦æà|^Á

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Óāå |ã^ÁQ, c^¦} æaāį }æ, ÁÚ[æbā] \* ÁÓāå • ÁÙ^} • ãaã, ãc ÁTæ] ]ā] \* Á/[[|Á@æ•Áà^^} Áæ]] |ā\*å Át[Ác@·Á] ¦[b/&cÁ •ãr Á, ãr@Áæ• \* {] cāį} • Á[-ÁF\{ÉÁG, {ÉÁ\ { Áæ} å ÁF€\{Áæ} \* ^\ Áæ[\*} à Ác@·Á] ¦[b/&cÁæ+ æěÁCE[Á æ• \* {] cāį} • Á@æç^Á @u, } ÁæÁ^} • ãaã, ãc Á; Æ{A[ Áœ • ^ Áœæà ãææ• Á[ ¦Á[æbā] \* Ábāå • Á @ãk@Ábe^ At[æb] | Á c@ Á/æb\* ^ Á{ āt ¦æat[ ¦^ Ábāå • Áb; &|\* åā] \* Ábæ] c[ ¦•ÈÜ^• \* |o•Á[ -Ác@ Ác[ [|Áæ]] |ãbæatā] } Áœ^ Á] ¦^• ^} c\*å Áæá 5 DD9 B8 = 1.7 "ÁÁ



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CHJXJXUY <sup>.</sup>	Ô@æ{ ^å[cæɨÁ̆}åĭ æææÁ	P[ĭàælæ#Óĭ∙cælåÁ	Õ∥[àæ∥^Á/@^^æe^}^åÁ
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DUggYf]XUY <sup>-</sup>	Úæ•^¦Á[[æìãããč•Á	Ö^æåÁÙ^æÂÙ]æ¦[, Á	V ⊊y acy an ( Ü^∙dã&c^åÁt[ÁTãåå^A Òæ∙cÁ
: f]b[ ]``]XUY	Ù^¦ą̃`•Á^¦ã&`•Á	Ù^¦ãæ), ÂÙ∧¦ã), Á	Ü^∙dã&c∿åÁqtÁTããåå ^Á Òæ∙oÁ
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		Á	
5 WVJd]lf]XUY	ŒĭðjæÁ@læ&æÁ	Q;]^¦ãæ¢ÁÔæ≛ ^Á	Õ∥[àæ∉ ^Á/@_^æe^}}^åÁ
FU`]XUY	Ô¦^¢Á	Ô[¦} ÁÔ¦æ\^Á	Õ∥[àæ¢ ^Á/@^^æe^}}^åÁ
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5 WWJd]ff]XUY	Ú^¦}ã-Áse]ãç[¦`∙Á	P[}^^ÁÓĭ∷ælåÁ	Ùãt}ãa&æ)oÁÚ¦[][¦cā[}Á[-Á
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According to the baseline strategy the following parts and areas along the proposed project's &[ ¦¦ãa[ ¦Á ^ ¦^Á ඤ ] |^åÁaˆÁ@Áč åˆÁ় ඤ Êk@Áaæ^|ð ^Á^•č |œÁæ^Á, ¦^•^} & dåÁæÁ@Á[ ||[ ¸ ð \* KÁ

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U}|^Áç [Á]^&&\*•Á;-Á,æč;¦æþÁ;|æ)Á{[`}åÁ§iÁ@A,'[][•^åÁ;ãčAá;-Á@A,'[b%oAs@eekset^Á^]¦^•^}æ]\*Á c@Áç [Áç^\*^œeaa]}Ác]^•Á{[`}åÁseeks@A,'[b%oAs`i![`}åã]\*Áset^ædz¥/@•^Á;}^Á;|æ)oÁ;]^&&\*•ÁseAs }[oÁs[}•^¦çæeaa]}Ás[][¦œaa}&^Ásā;&^Ásaaska[{ { [}Áseeksee Áç^\* ^œeaaa]}Ác]^EÁ

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**Anabasis syriaca:A&**[{{[}Áæ;)åÁ&[Á,[d⁄@æç;^Áæ;)^Á&[}•^¦çææ‡i}Áçæ;i`∧ÈÄ Á

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Ö`^Áţ Á@Á\$^¢¦ąt ¦æeqt }Áe) åÁ@Áæè•^}&^Á(-Á@Á,æč ¦æ¢kş^\*^œeqt }ÁæA@Á,i[][•^åÁã^Áţ ¦Á@Á ]¦[b&dŹv@Áæš}æ¢håãç^¦•ãĉ Á^&[¦å^åÁæeA@Á\*ã¢Aãe Áqe[Áç^¦^Á(ajatae‡E/P[Á+]^&a\*•Áţ-Á^]ca†^•Á \_^\^Á^&[¦å^åÅs`^Áţ ÁœÁ ajc'¦Á^æe[}Ås`iaj\*ÁœÁ\*`lç^^Ê&ç [Á]^&a\*•Áţ æ{ { æ† Áæ}åÅãç^Á •]^&a\*•Áţ-Ásāå•Á, @¦^Á^&[¦å^åÁæeA@Á,i[][•^åÁãe^Áţ-Ás@Á]¦[b&aÆe)åÁs@Á\*`l¦[`}åaj\*Áæ^æÁ \_ ãc@jÁt€€Áţ^c^¦Á¦[{ Ás@Á,i[][•^åÁãe^+Ás]!å^!eĚ

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#### <u>AUaaU`g</u>`

#### Canis Vulpes; Red Fox:

V@&Á+]^&&A+Á@ee Áà^^}Á\^&[¦å^åÁc@{[`\*@Á[à•^¦çææa]}ÁæcÁ]¦[b/&cÁæd^ædÉc@Á+čå^Ác^æ{Á@ee Á [à•^¦ç^åÁee Á ^||Á^ç^¦ædAs^}•ÁæcÁãcAs@ecÁ@ecç^Á[c^+A[[d]¦a]or ÉA

#### Gerbillus gerbillus LÁ@/ggYf'9[mdh]Ub'; YfV].Á

V@ £ Á] ^ & ð • Á@ e Ás ^ } Á ~ & [ ¦å ^ å Ås <sup>\*</sup> ¦ð <sup>\*</sup> Á@ Ás æ ^ |ð ^ Á <sup>\*</sup> ¦ç ^ Á@ [ <sup>\*</sup> \* @ k@ Ás [ ¦¦ [ , • Á ^ & [ ¦å • Ás) å Á c@ Á & æ Éc@ A ^] ^ & ð • Á@ e Á [ [ Á& [ } • ^ ¦çæ t ] } Á cæ \* • Á @ ¦^ Ás Æ ` A & [ } • ā ^ ! ^ å Á & [ '] \* æ & [ ¦å ð \* Á [ ÁQ \Ô Þ Á U ^ å Á Ö æ Æ Š ă ơ [ , Á G ∈ È Ě \Ø & A ] ^ & ð • Á & A [ <sup>\*</sup> } å Á c@ [ <sup>\*</sup> \* @ <sup>\*</sup> ó A @ Ás ^ · ^ ! ó A & A \* A • ^ { # a ^ • ^ ! o A \* t ] • È Å

#### Vulpes vulpes; Red Fox:

#### <u>6 ]f Xg</u>ʻ

#### Ammomanes deserti; Desert Lark:

#### Eremophila bilopha; Temminck's horned lark:

U}^Á; Ác@Á; [•OÁS[{ { [} Ásiðla Á5j Ác@Á^{ diā^•^\cósc) a Áseb áa Á^\* át}}•Á; ÁRŢ ¦aæ) ÈÁQ+Á, •Oási Á; }ác@Á \*¦[`} a ÉÂ; ác@Áç; [Át; Á[`¦Á\*\*•Áa^ð]\*Ázæna ÉÁQ+Á[[a Ási Á\*^^a •Á\*]] |^{ { ^} chi Arg ¦aæ) ÈÁQ+Á fa Aseb Á5j Ác@Á à¦^^að]\*Á^æe[} ÈÁQÁ@ze Áa^^} Ár &[¦a^a ÁsecÁ@Á]![][•^a Á ác^Á(A\*A@Á]![b^ & Asa^ Ásið ^ & Aseb Á5j Ác@Á V@Á8[}•^¦çæati }Á cæeš •Á; Ásið a Á; Árg ¦a að Ási Á8[{ { [} Áse) a Ási Á[[chi Qe^aec^} ^ a ÈÁ

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#### ; U`Yf]XU'W]gHUHU'7fYghYX`@Uf\_.`

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V@ĕÁ^&caį}Á\*ãç^•Áæ)A;ç^¦çã\*,A;ÁœAć\*]^Áæ)åÁ;\*{à^!Á;A,^f,]}^Á;@?Á;ä/Åæ;æa‡ææ}/^Á;ão@3)Á c@Aj![b^&cA\*ãc^Áæ)åÁc@A\*`|![`}åäj\*•Éxc@A\*`|![`}åäj\*Áæ)åÁ\*•^•ÉA¢ã\*caj\*Áaj⊰æed`&č¦^Áæ)åÁ čdjāzð•EÁ

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V@:Á}^æ/•oÁ][]`|æe/åÁæ/^Á[Ác@:Á]¦[b/&oÁãe ÁTæ\*@eê ^¦ÁT@ee)}æ4çā|æ\*^Á,ão@ÁæA][]`|æaā[}Á[-Á GÊĴ HĚ4ÇÖ[ÙÊ€€FÍD

### ) '( ''& Dfc **^**YWhGiddcfhhc >cfXUb]Ub ; cjYfbaYbh]b < cgh]b[ 'FYZi [ YYg'

#### <u>9bYf[mGYWrcf]b'>cfXUb</u>``

In response to energy security concerns and Jordan's crippling subsia  $\hat{A}_{i}$   $\hat{A}_$ 

#### <u>G]hiUhicb`5bU'mq]q</u>`

As of March 2016, there are approximately 636,000 Syrians (6.7 % of Jordan's population)  $\{ | \{ a \neq | ^ !^* \tilde{a} c | ^ a | \tilde{a} | \tilde{A} = D \hat{a} + D \hat{a} + D \hat{a} + D \hat{a} + \tilde{a} 
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FہDepartment of Statistics, quoted http://english.nuqudy.com/Levant/Jordan%E2%80%99s\_Energy\_Cri-4547Å FFÅee http://www.reuters.com/article/2013/10/13/imf-jordan-idUSL1N0I208M20131013Å

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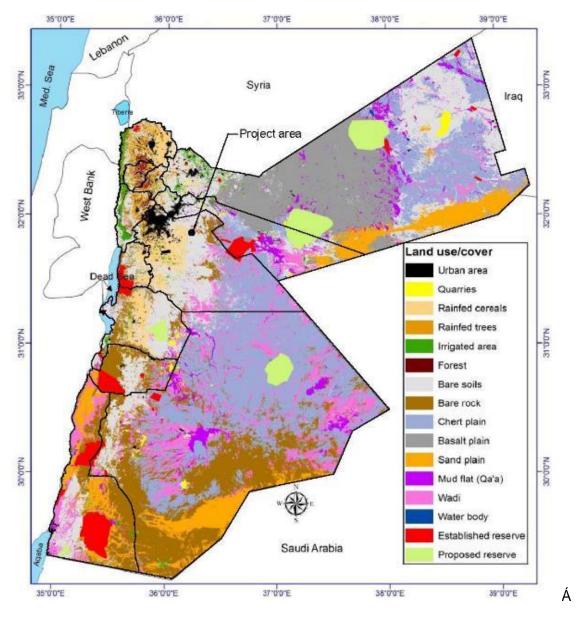
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To accelerate and scale up efficient and effective responses to Jordan's growing  $\hat{A}^{+}^{+*} \hat{A}$  $a^{a} a^{a} \hat{A}_{a} a^{b} \hat{A}_{a} \hat{A}_{a}^{b} \cdot caaj aa_{a}^{b} \hat{A}_{a}^{b} a_{a}^{b} \hat{A}_{a}^{b} a_{a}^{b} \hat{A}_{a}^{b} \hat{A}_{a}$ 

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http://www.worldbank.org/content/dam/Worldbank/document/MNA/Jordan\_Economic\_Monitor\_Fall\_2013.pdf (accessed 7 May 2016). A FHÁT ặ ã dˆ Á; -ÁU[æ] } ā \* Áu^\* \*^^• Édu & à \* Áu~ \* \*^• Édu & à \* Áu~ \* \*^• Édu & à \* Áu~ \* \*^• Édu & à \* Áu~ \* \* \* \*



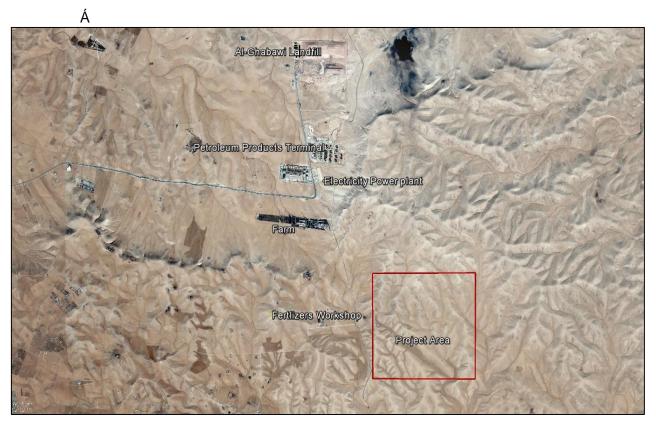
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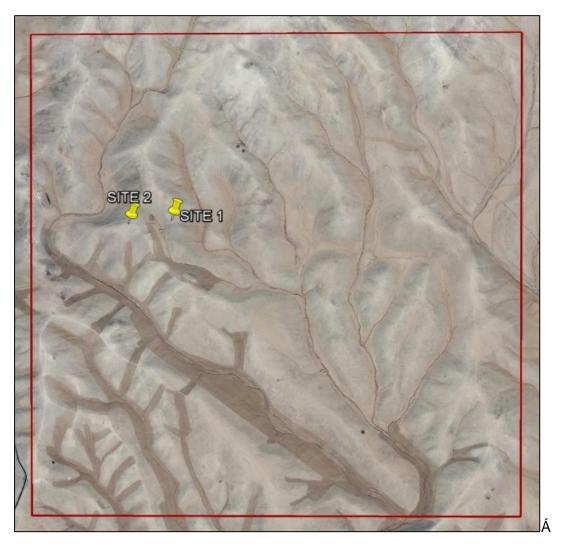
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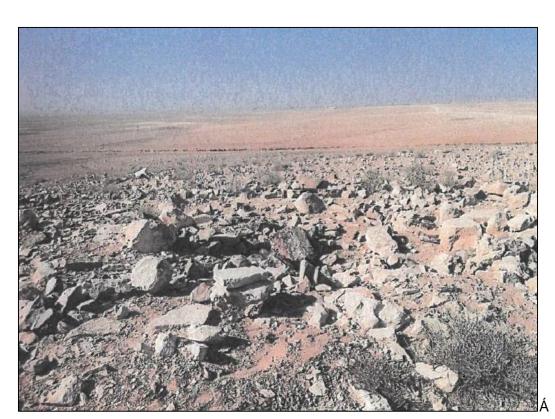
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## **9**B; 5; 9A9BH

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- A Municipality's major demands and concerns about the project:A
  - •A Much focus was payed to job opportunities, whether it's done by providing jobs
    - [¦Ác@[`\*@ko@Átæjā]\*Á;Á[&æ]•Á;}Á;[¦\•Á^|æe^åÁt[Á`&@A;¦[b^&o•ÈĂ]
  - •Á V@ÁT `} 3&āj æjáč Á^¢] ^&o•Áţ Á ^^] Á[ &æjÁ&[ { `} ãč Áij ç[ |ç^å/å` 'āj \* Áæjĺ/Ĵ ![ b^&oÁ • cæt ^• É&uj å/áţ Á^^] Á&[ }• cæj o/&[ }• `|cæaţi } Á, Á∞{ EÅ
  - A V@ÁT`} 3843 ædjáč Áæe\^å Áã Áæi}^Á+`]][¦oÁ8æi) Áà^Ái]¦[çãå^å Áq[Á@·]] Á] æ âj\* Ác@Á ^|^&d 38aîc Ásiāļ|Ái, Ás@Ái`} 3843 ædjác Ás`ājå âj\* ÈÁÁ Á

#### •Á 7 cbgi `hUhjcbʻk ]h\ 5`!BieUjfU\ K ca Ybʻ5 ggcVjUhjcb"

The association showed full support of the project, for such projects decrease country's  $a^{1} + a^{1} 
#### •Á 7 cbgi `HJhjcb'k ]h 'U'local fertilizers workshop (Robou' Al!CfXcb'K cf\_g\ cdŁÁ

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OE Á, æi dá, -Ás@ Ásj c^lça?, ÁDE Akræi (Ásj č ã^å Ásæi [č dá@ Á, à•^lçæaā); A, -Ás@ Á, |[č\*@ å Áæ); å Ás@æe Á, æ Á à^^} Á, ão) ^••^å Ásæsl [••Ás@ Á, æsi áf [č d•Ásči]; \* Ás@ Á] ![b% & Afati at Afati at Afati at Afati at Afati c@æe Á č æl Afati at Afati a



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Ú¦[b^&oÁ^}çā[]{ ^}oÁ&[ç^¦ã)\*Á]@•ã&æ‡ÉÅàã[|[\*ã&æ‡ÉÅùã[k][\*ã&æ‡ÉÅÙ[&ã‡Ë^&[}[{ã&Áæ}åÁU&&`]æaã[}æ‡AP^æ¢c@Á BÁUæ^cÂÇUPÙDÁæ=]^&orÁæ^Áæ^^áãa^}cãæ³åÁ[¦Áæ‡|Á];[][•^åÅæ&ãçãaæ}•Á]@ã&@Á@æ=Ás@A∫[c^}cãæ4ÁţkÁ

•Á Q, c^¦æ&oÁ, ãc@Ác@ Á^}çã[}{ ^}oÁQ;@•ã&æ‡Éààã[[\*ã&æ‡É4[&ãā;Ë^&[}{ a&ÆADÁUPÙDLÁæ}åÁ

 $\bullet \dot{A} \quad \dot{O}_{1}^{h} \approx \hat{Q}_{0}^{h} \otimes \hat{A}_{1}^{h} + \hat{A}_{1}^{$ 

V@Á\$å^} œãð\*åÁ^&^] q[¦•Áse¦^Á;¦^•^} c^åÁ§j Á**HUV`Y`&-**Á§^∥[,ĔÁ

5gdYWfg#FYWYdhcfg	8 YHJj`g`							
%lD\mg]WU <sup>:</sup> 9bj]fcbaY	%D∖ mg]₩U <sup>™</sup> 9bj]fcba Ybh							
OEālÁÛ≚æ‡ãĉÁ	V@\Áæe{ [•]@\\^ÁæeÁæ}åÁæe[`}åÁs@AÚ¦[b%&oÁÚãe^ÈÁ							
Þ[ ã^Á	V@^Á&[}•d`&cā[}Á];@ee•^Á∿•]^&ãae ^Áæ&3cãçãcÂ/ æe^åÁ{[Áclæ9)•][¦cæeā[}}Áæ)åÁ ^¢^&`cā[}Á[ã`@Á@æç^ÁæÁ][c^}cãæ4Áã[]æ&cÁ][}ÈÁ							
Ù[ āÁÁ	V@^Á•[ā]•Á[-Ác@^Á]¦[b^&cÁæ‡^æÁ[}Á, @3&@Á&[}•d`&cā[}ÊÁ[]^¦æaā[}Áæ);åÁ å^&[{{ã•ā]}}ā]*Áæ&cāçãaā∿•Á,ā  Á[&&`¦ÈÁ							
P^å¦[*^[  [ *^Á	V@>Á@`å¦[*^[ [*^ÁÇAÈÈÉK'¦[`}å, ææ^¦DÁ6jÁc@/Áæ4^æ46jÁæ9)å/Áæ4[`}åÁ, @`¦^Á &[}•d`&ca[}/Áæ9)å/{{]^¦æeafi}}Áæ8aãçããã∿•Á,ã  Á;&&`¦ÈÁ							
P^å¦[  [ *^Á	Ùq[;{ Á, æe^;{Á, ão@a, Áo@;A,;[b%&oAeeA							
Šæ)å∙&æ]^ÁÐÁKãrĭæ∣Á Q:]æ&oÁÐV[][*¦æ]@Á	V@^Á*^[{ [¦]@[[*ã&Á;æ)åÁ[¦{ •Áse)åÁs∿¦¦æanjásee/ko@ÁÚ¦[b^&oAiãe^ÈÁ							
&!6]c`c[]WU`9bj]fcba	Ybh							
Ø[[¦æÁ	Ú æ);cÁ•]^&&?•Ác@eeeÁ&[č åÁ][c^}cãee ^Á^¢ãecÁãj,Ác@:Áæ4^æÁãj,Á,@a&@Ác@:Á &[}•dč&cãi,}Áæ);åA;]^¦æeãi,}æ4Áee&cãçãa??•Á,ã A;&&č¦ĚÁ							
Øæĕ}ækkýçÓãå∙ÉÁ Ü^]cā∤∙Áæ)åÁ Tæ{{æ∳DÁ	Øæč}æÁ•]^&&*•Áv@æexÁ&[` å.Áj.[c^}cãæd¦^Áa>^Áæ=~^&c^å.Aaî^Áx@^Áj¦[b^&oAaãã=~\¦^}cÁ æ&cãçãa?e-ÁajÁx@^Áæb^æÁajÁ,@ã&@Ax@^Á&[}ecl`&cãį}Áæ)å.Aj]^¦æaāj}æ4Áæ&cãçãa?eA ,ā Áj&&&`¦ÈÁ							
'!CWW/dUh]cbƯ` <yưh< td=""><td>'UbX'GUZYImi'</td></yưh<>	'UbX'GUZYImi'							
Ô[}•dૻ&cāţ}Á/^æ{Á	Ùcæ-Á[}Á]¦[b\&oÁ+ãe^Á,@&&@Ádeh^Á+`àb\&oÁ[Á[&&&`]æaā[}æ4Á@æeæåå•Á~~^&œÁ •`&@Áde Á[ã ^Ê&a`•dÊA c&ÈÁ Á Á Á							
(!GcWjc!YWcbca]W9b	j]fcba YbhÁ							

#### HUV`Y`&-.`=XYbhjZjYX`9bj]fcbaYbhU`UbX`GcVljc!YWcbca]WFYWVdhcfg`

5gdYWfg#FYWYdhcfg	8 YHJ[g <sup>.</sup>
Ú`à ã&Á₽^a¢c@ÁBÁ Ùæ^c`Á-ÁÇÚPÙDÁ	Šæ) åÁ`•^¦•Á}^æà^Áœ?Á]¦[b%&oÁà[`}åæ}ð?•Ác@æeÁ&[` åÁà^Á•`àb%&oÁd[Á @æ ælå•Ð]`à a&Á@?æbc@Áæ) åÁ•æ^ĉÁ^~^∨Á][c^}caæa ^Áælā;ā*Á+'[{Ác@?Á Project's activities.Á
Ú[] ` æaā[} /Á	V@^Áj¦[b*&oÁæd^æÁæiÁæiÁ+{[{Ác@^Áj[]ĭ ææ^åÁæd^æe ÈÁP^}&^Êéc@;¦^ÁæiÁ;[Á ][]ĭ ææāį}ÁQ;^[] ^DAĭcāpērāj*Ác@^Áj¦[b*&oÁæd^æbÄ
Šæ);åÁ∿∔^ÁBÁŠæ);åÁ	V@^Á,¦[b^&oÁsel^æásiá,}}^åÁsì^Ác@^ÁÕ[ç^¦}{ ^}o4, Á⊼[¦åæ}ÁÇÕ[RDÁse)åÁ@æeÅ
U,}^¦∙@2)jÁ	à^^}Á^æe^åÁsì^ÁÓæê}[ĭ}æÁ{[¦Ác@^Á,¦[b^&o4si`¦æaā]}ÈÁ
Y[¦\-{¦&∿Á8Á	Þ^, Á, [¦\Á[]][¦č}ão&•ÁæehÁr¢]^&c^åÁ{æi})^Á&[}•d`&ca‡}Áj@æehÁæ)åÁ
Ò{]∥[^{^}&Á	[]^¦æca‡}}Áj@æehÁ
Wcajāāa∿●Áaa) åÁ	V@^Áĭca‡aãa?•ÁQ;È"EĂ][,^¦Á•ĭ]] ^ÊÁ,æe^¦ÊÁc^ ^&[{{ ĭ}a8æe‡a,}•ÊÆ•^,æ*^Á
āj -¦æed č&č ¦^Á	•^¦ça8∧•DÁ,@a8k@Á,a‡ Áa₀^Á,¦[çãaô^åÁ{[¦Áx@^Á,¦[b^&dĚÁÁ
V¦æ}∙][¦ơÆÁ∕¦æ-æAÁ	Ü[æåÁdaa)•][¦OÁ^•C^{•A{~Ao@Aad^æd\$9A,@a&@Ao@Aú' [b^&OAa&aajaa?•Aad^Aq[A [&&`¦Aa`']a]*Ao@A&[}•d`&aaj}}Aj@ee^Ê&aaj[¦Aa`']a]*Aj]^¦æaaj}}Aj@ee^Èé
OEE&@eee°[∥(*^ÁbáÔ` c'¦æ‡Á	OEL&@ee^[ [* 38æ4Ánãr∿•Áæ)å Áæd c∿æ∨ Ár@eerÁ@eeç^Á&č c覿4Ánāt}ãa38æ)&^Á{[č}åÁ
Ú¦[]^¦c'Á	, ãr@3)Á,¦Á5jÁc@Áça8ajãc´Á,~Ác@ÁÚ¦[b^&óÁeb^æ4Ă

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## +'%=bhYfUWIjcb`cZ=XYbhjZjYX`5gdYWfg`UbX`FYWYdhcfg`

V@^Á§jc^¦æ&ca[}\_Á[,^Áæe]^&co-Áæ);åÁ^&^]q[¦•Áãa^}cãað\*åÁ§jÁs@AÔÙQDEAj\[&^••Áæc^Áj\^•^}c^åÁ§jÁHUV\*Y\* '\$Áà^|[, Á{[¦Áæ4|Á]|æ}}^åÁæa);åÁ\*}]|æ}}^åÁæ&caāçãaãð\*•ÁðjÁæååãaãa[}Áq[Ácæc\*^Á;æc\*¦æ4Ååãræe;c^\+Áðjq[Á &[}•ãa^¦ææa]}KÁ

Á Á ÔÙ QHÊZĂJ æHÛ^][¦ơÁ

HUV`Y'\$.`9bj]fcbaYbhU`UbX`GcWjc!9Wcbca]W5gdYWhAUrf]I`

				D\ r	ng]WU`			6	5]c`c[ ]V	<b>N</b> .	C <g<sup>.</g<sup>			GcV	[c!Y₩cb	ca ]W			Chì Yf
	F YWYdhof 5 W¶jj]hm	5 Jf Ei U]mi	Bc]gY		; fci bXk U <del>N</del> f <sup>.</sup>	<mxfc`c[ m<="" th=""><th>@LbXgWUdY# Hcdc[fUd\mi</th><th>:`cfUfI W]HJg£</th><th>6 Jf Xg<sup>.</sup></th><th>FYdh∱Yg/ ` A Ua a Ugʻ</th><th></th><th>Ъс<u>с</u></th><th>Dcdi `Urjcb'</th><th>@NbX'I gY</th><th>Kcf_ZcfWr∕′ 9ad`cmaYbhi</th><th>Ih]]h]Yg∕` ±bZ∪ghfi WiffY</th><th>Hf Ubgdcf h/`` Hf UZJW</th><th>7 i`hi fƯ'∕' 5 fW UYc`c[m</th><th>@UV]]Imi# F Ydi H<b>Uf</b>jcb<sup>:</sup></th></mxfc`c[>	@LbXgWUdY# Hcdc[fUd\mi	:`cfUfI W]HJg£	6 Jf Xg <sup>.</sup>	FYdh∱Yg/ ` A Ua a Ugʻ		Ъс <u>с</u>	Dcdi `Urjcb'	@NbX'I gY	Kcf_ZcfWr∕′ 9ad`cmaYbhi	Ih]]h]Yg∕` ±bZ∪ghfi WiffY	Hf Ubgdcf h/`` Hf UZJW	7 i`hi fƯ'∕' 5 fW UYc`c[m	@UV]]Imi# F Ydi H <b>Uf</b> jcb <sup>:</sup>
						•	Planned	Activit	t <b>ies</b> Á										
	018&^∙∙Á[æåÁ[Áãc^Á	•	•	•			•	•		•	•	•			•	•	•	•	•
	018&{{{[åæaā]}∙Á	•	•	•			•	•		•	•		•		•	•	•		•
	Pæĭ∣æ*^Á	•	•	•		•		•	•	•	•	•			•	•	•		•
	Ùã¢Árč¦ç^^Á	•	•					•							•		•		•
	Ùãc^Á[ã¦ÁQ;ç^∙cãtaeaã[}Á	•	•	•	•	•		•			•				•			•	
	Ô ^ælaji*Áæ)iåÁt¦æåaji*Á	•	•	•		•	•	•	•	•	•	•			•	•		•	•
	V¦^}&@3)*ÁBÁåã&@3)*Á	•	•	•			•	•		•	•	•			•	•		•	•
Construction	Ò¢&æçæaaậj}ÁBÁsåå*āj*Á	•	•	•			•	•		•	•	•			•	•		•	•
	Òæ¦c@;[¦∖∙ÁBÁÔãçã†Á;[¦∖∙Á	•	•	•			•	•		•	•	•			•				•
	T[àā‡āææa‡]}£å^{{[àā‡āææa‡]}Á [-Áæaà[¦ÁBÁ^č ă]{^}ơÁ	•	•	•		•	•	•	•	•	•	•			•	•	•		•
	Ùd * &c* ¦^∙ Á&[} • d * &cāį} Á	•	•	•		•	•	•	•	•	•	•		•	•			•	•
	Yæ•c∿Á*^}^¦æe∿åÁ¦[{Á &[}∙dč&aậ}∕Áæ&aãçãaã)•Á			•		•	•	•		•	•	•	•	•	•				•
	Yæ•c^,æe∧¦Át^}^¦æe∧åÅa^Á •ãe∧Å[¦\^¦∙Á			•		•	•	•		•	•	•	•	•	•	•			•

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				D\ n	g]WJ`			6	6]c`c[]V	<b>W</b> .	C <g<sup>.</g<sup>	GcWjc!YWebca JW CH								
	FYWVdhcf 5 Wijj ]hm	5]f'Ei Ư]mi	Bc]gY		; fcibXkUMT	<mtc`c[ m<="" td=""><td>@ubXgWudY# Hcdc[fud\m</td><td>: `cfUfI W]HIgk</td><td>e Jt Xg'</td><td>FYdh∱Yg⁄′ Auhaugi</td><td></td><td>D<g< td=""><td>Dcdi `Urjcb'</td><td>JG IX970</td><td>Kcf_ZcfWY∕′ 9ad`cmaYbhi</td><td>. hj]hyg/. - γghi Wifγ</td><td>Hf Ubgdcf fv′ <sup>·</sup> Hf UZJW</td><td>7 i `hi fƯ'∕` 5 fW UYC`c[ m</td><td>@WJ`]hni# FYdi HJIjcb<sup>:</sup></td></g<></td></mtc`c[>	@ubXgWudY# Hcdc[fud\m	: `cfUfI W]HIgk	e Jt Xg'	FYdh∱Yg⁄′ Auhaugi		D <g< td=""><td>Dcdi `Urjcb'</td><td>JG IX970</td><td>Kcf_ZcfWY∕′ 9ad`cmaYbhi</td><td>. hj]hyg/. - γghi Wifγ</td><td>Hf Ubgdcf fv′ <sup>·</sup> Hf UZJW</td><td>7 i `hi fƯ'∕` 5 fW UYC`c[ m</td><td>@WJ`]hni# FYdi HJIjcb<sup>:</sup></td></g<>	Dcdi `Urjcb'	JG IX970	Kcf_ZcfWY∕′ 9ad`cmaYbhi	. hj]hyg/. - γghi Wifγ	Hf Ubgdcf fv′ <sup>·</sup> Hf UZJW	7 i `hi fƯ'∕` 5 fW UYC`c[ m	@WJ`]hni# FYdi HJIjcb <sup>:</sup>	
	Yærc^,æe^¦Áåã&@æe'*^Á			•		•	•	•	•	•	•	•	•		•	•			•	
	T`}a&ajaaþÁ[]aãÁ;æ∙c∿Á @æ)ålaj*Á	•		•		•	•	•	•	•	•	•	•	•	•				•	
Operation	Pææå[˘•₽¾@{ ¾æ¢Á •q[¦æt^Áæ)åÅåã][∙æÅ	•		•		•	•	•	•	•	•	•	•	•	•	•			•	
	Ô@~{ a8æ‡454,ā¼4,q¦æ*^Á	•		•		•		•	•	•	•	•	•		•				•	
	X^@384 ^•A[]^¦æaã[}Á	•	•								•	•			•		•		•	
	Tænājc^}æ)&^Áæ&añçãnã∿∙Á	•	•	•		•	•	•		•	•	•			•	•	•		٠	
Decommissi oning	Ò``ā]{^}ơЮ̈́ã{aa}qā]*ÁBÁ åãr&{}}^&aā]}∱,Áj aa)ơÁ &[{][}^}orÁ		•	•			•	•		•	•	٠	•		•		•		•	
	Ö^{ [ ãr@a],*Á	•	•				•	•	•	•	•	•	•		•		•		•	
	Ø^}&^ÁÜ^{ [çæ‡Á		•					•			•	•	•		•		•		•	
	Ò¢&æçæaa]}ÁBÁàæ&\~a  a]*Á	•	•	•		•	•	•	•	•	•	•	•		•	•	•		•	
	Öãr][∙æ‡ÁÁ		•	•			•				•				•	•			•	
Unplanned Project ActivitiesA																				
	X^@384 ^Á&[  ãrā[}Á	•	•	•				•	•	•	•	•	•				•		•	
Construction	Ù]ā ļÁ,-Á&@{38æ†+Á,¦ÁãĭãaÁ ~`^∣•Á	•		•		•	•	٠	•	•	•	•	•						•	
	Q}ãā‡}•Á;-Á¦æ;{æà ^Á {æ*¦ãa‡•Áa5&&ã^}œ4Áã^•Á	•		•			•	•	•	•	•	•	•				•		•	
Operation	X^@a& ^Á&[∥ãrā[}Á	•	•	•				•	•	•	•	•	•				•		•	

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#### Á *Á*ĨŎÙ**QĔĔġ**ŧæţĂÜ^][¦ơĂ

Ch\Yf

@UV]]hm# Ydi hUNcb<sup>.</sup>

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F YVVYdhcf 5 VV¶jj]Imi		D∖ng]WƯ							6]c`c[]V	U.	C <g<sup>.</g<sup>	GcWjc!YWebca]W					
	· ·	5 Jf Ei U]mi	Bc]gY		; fcibXkUMf	<mxfc`c[ m<="" th=""><th>@ubXgWudY# Hcdc[fUd\mi</th><th>: `cfUfl WJHJgk</th><th>6 Jf Xg<sup>.</sup></th><th>FYdh]`Yg'∕ A La a Ugʻ</th><th></th><th>D&lt; G</th><th>Dcdi `Uŋcb'</th><th>ആന്ദ്യ ഇ</th><th>Kcf_ZcfWr∕′ 9ad`cmaYbhi</th><th>Ihjyg⁄∕` ta∡ughti WiifY</th><th></th></mxfc`c[>	@ubXgWudY# Hcdc[fUd\mi	: `cfUfl WJHJgk	6 Jf Xg <sup>.</sup>	FYdh]`Yg'∕ A La a Ugʻ		D< G	Dcdi `Uŋcb'	ആന്ദ്യ ഇ	Kcf_ZcfWr∕′ 9ad`cmaYbhi	Ihjyg⁄∕` ta∡ughti WiifY	
	Ù]ā  Á;≁&&@{ã&a‡+Á;¦ÁãĭãåÁ ~`^ +Á	•		•		•	•	•	•	•	•	•	•				
	Q}ãoāį}●ÁįÁ¦aa;{æà ^Á {æc^¦ãoo∳Áaba&&ãa^}cæjÁal^●Á	•		•			•	•	•	•	•	•	•				

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	C2}aca,}●A,-A,-a,e,{ aca,^A { acc^;ac+A/ace, { aca,^Aa^^A A { acc^;ac+A/ace, { aca,^Aa^^A A	•		•			•	•	•	•	•	•	•				•		•
	Natural Disasters <sup>A</sup>																		
Construction	Earthquake "Seismic Activities"Á		•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	
	Ø[[åā]*Á			•		•	•	•	•	•		•	•	•		•	•		
Operation	Earthquake "Seismic Activities"Á		•	•	•		•	•	•	•		•	•	•	•	•	•	•	
	Ø[[åð]*Á			•		•	•	•	•	•		•	•	•		•	•		

# , 5 B5 @MG=G' C: DFCDCG98' DFC>97 H' 5 @H9FB5H=J9G

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The analysis for this project contains options/alternatives which are the "No Project" versus "Project" alternacãçAğ Áæåããų A ( A c@A A  $A^{+}^{A} = [~+&++] & A$   $A^{+} = A$ [ & A  $A^{+} = A$   $A^{-} = A$ 

Ó^Á&[}•ãå^¦ãj\*Ác@•^Áæ¢c'¦}ææãç^•Á]¦ãį¦Áq!Ác@A&[{{^}&^{ ^}cA[-ÁÚ¦[b^&cAæ&cãçãtã^•ÉÁ ^}çã[]{ ^}cæ‡Áæ)åÁa[&ãæ‡Á]¦[b^&cAà^}^ãæÁ&æ)Áà^Á(æ¢ã[ã ^åÁæ)åÁ,[c^}cãæ‡Á&@æ‡|^}\*^•Á&æ)Áà^Á ãå^}cãa?åÁæ)åÁæåå¦^••^åÈÁ

Gma Vc``	8 Yg₩]dh]cb <sup>°</sup>		
ÝÁ	Ö^}[c∿•Á][c^}cãæ‡Á{¦Áã[]æ&dÉÅ}@3&@ÁãaÁ¦[oÁ&[}•ãå^¦^åÁ •ã*}ãa&æa)oÁ		
ÙËÁ	Ö^}[ c^•ÁÚ[ c^} cãæ‡ÁÛã*}ãã3æ3; cÁŒãç^¦•^ÁQ; ]æ\$cÁ		
ÙÉÁ	Ö^}[c^•ÁÚ[c^}cãæ¢ÁÛã*}ãã&æ;oÁÓ^}^~ã&ãæ¢ÁQ;]æ&oÁ		
EÁ	Ö^}[c^•Á[Á&@ea)*^ÁţÁœ?Á¢ãrcã)*Áãčæeãţ}Á		

HUV`Y'%`9jU`iUhjcb`GmaVc`gʻZcf`@⁄jY`gʻcZ9bj]fcbaYbHJ`UbX`GcV¶U`=adUWh

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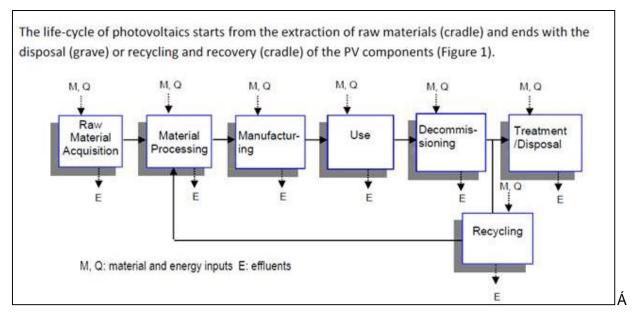
## , "%The 'Project' Jg"the 'No Project' Alternative

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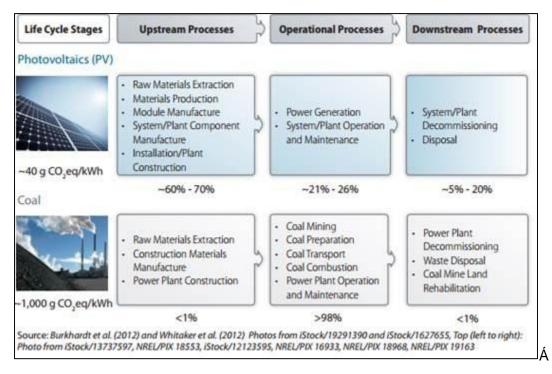
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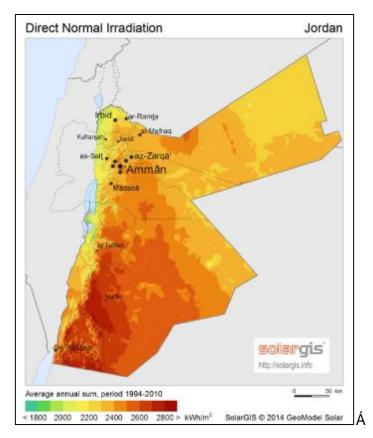
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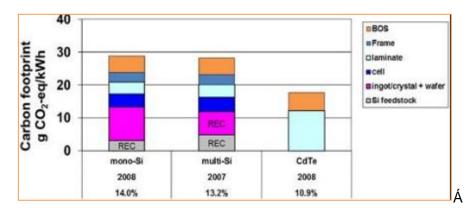


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Renewable Energy Type	tCO2e/MW
Wind	16.80
PV Solar	29.20
Hydro (Small/ Run-of-River)	24.18
Biomass	34.96

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Energy Payback Time (EPBT) =  $(E_{mat}+E_{manuf}+E_{trans}+E_{inst}+E_{EOL}) / ((E_{agen} / \eta_G) - E_{aoper})$ where,

E<sub>mat</sub> : Primary energy demand to produce materials comprising PV system

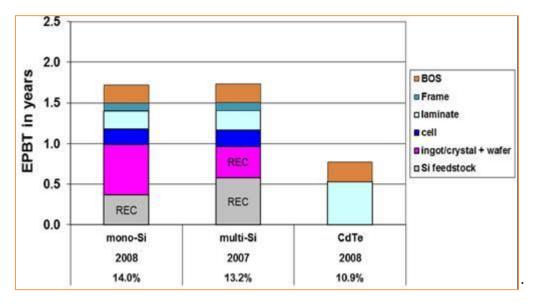
E<sub>manuf</sub> : Primary energy demand to manufacture PV system

E<sub>trans</sub> : Primary energy demand to transport materials used during the life cycle

- E<sub>inst</sub> : Primary energy demand to install the system
- E<sub>EOL</sub> : Primary energy demand for end-of-life management
- E<sub>agen</sub> : Annual electricity generation
- E<sub>aoper</sub> : Annual energy demand for operation and maintenance in primary energy terms
- $\eta_G$  : Grid efficiency, the average primary energy to electricity conversion efficiency at the demand side

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'no project' alternative

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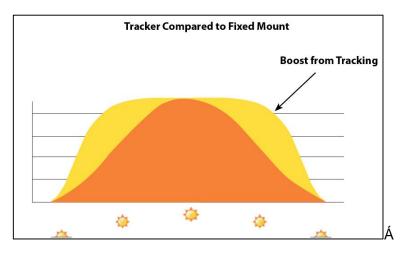
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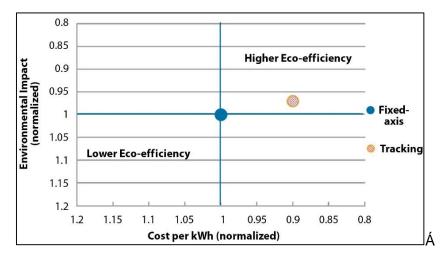
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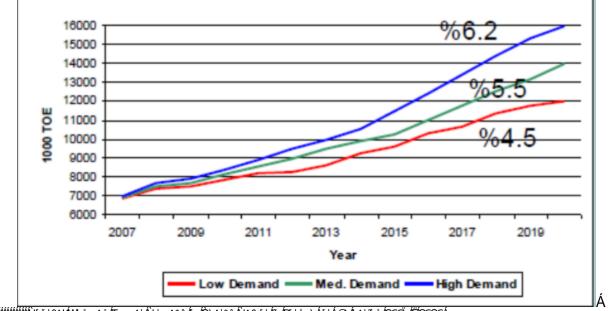


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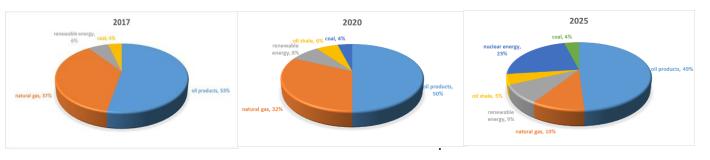
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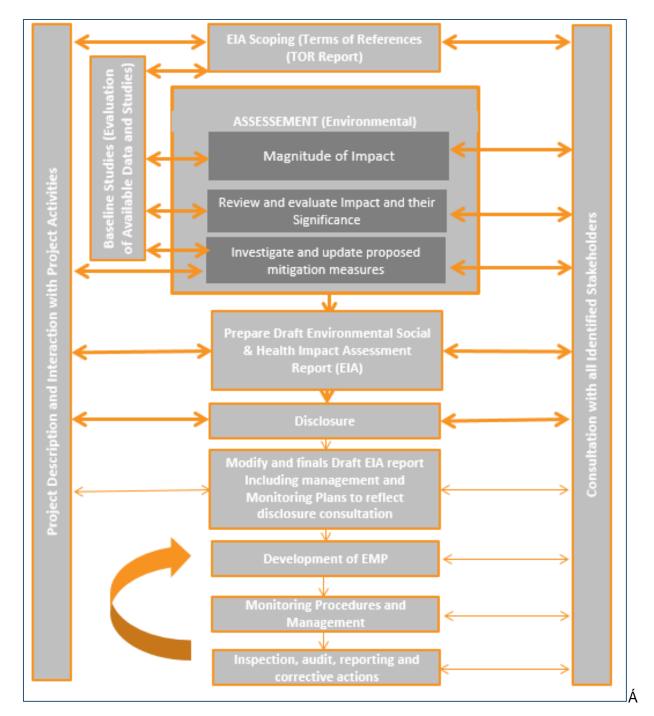
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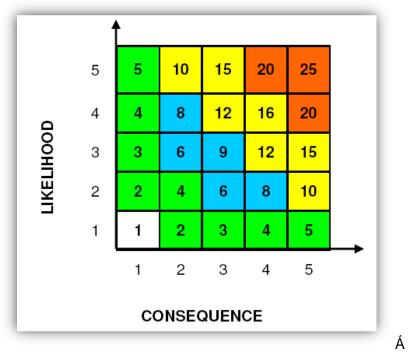
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## - '%" `G][ b]**Z]WU**bWY`

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V@Á^•ãåčæþÁą[]æ&ærÁær•^••{^}oÁãa^}cãæ?•Á;@&&@A;![b^&cÁæ&cãçãæ?•Áæ^Áåa^|^ÁąíA|^ÁąíÁ\*\*`|oÁajÁæÁ^{ã ]^¦{æ}^}oÁq[Á]^¦{æ}^}oÁ&@æ}\*^ÁājÁc@A}æč¦æµÁÇāPÈĂ]@•&8æ4ÊÀàā[|[\*&8æ4DÁæ)å⊕¦Á•[&ã[Ë ^&[}[{&&A}}çã[]{^}crÉV@Á?ã}ã&Bæ}&^Á;Á@ærÁ&@æ}\*^Á@ærÁ&@æ}\*

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- •Á CdYfUhjcb D\UgY.Á/@žÁ^^\•Á{ Á@ÁÚXÁ;[,^\Á;|æ)o4{;]^\æaaa;}}Á;\[&^••^•ÈĂ
- •Á FYhfcZļhcf'8 YWca a ]gg]cb]b['D\UgY.'Q[||[, ā] \* Ás@ Á] ^¦æaā] } Á] @æe ^Ê£sh^cv';{ ā] æaā] } Á æ Á[ Á] @ c@: | Á@ Áæsādāc Ásæ) Ás^Árd[~ãuch áÁE ÈÁ] \* |æah^å Áse) å Áseb å ásab å ãaā] } Á[ ~Á, ^Á, ^, Ár &@ [ [ [ \* ^ Á , ā]| Ás^Ásh^cv';{ ā] ^ å ÈÆQÁ^d[~ãucā] \* Ásiãa Á] [ cÁc';} Å[ ` cÁt[ Ásh^Áræaā] ^Êsc@} Åsh^&[ { { ã • ā] } ā] \* Á æscāpāc Á, ā]| Ácæh^Á] |æsh ĚÖ^&[ { { ã • ā] } ā] \* Ásascāpācāb • Áseh Áse) cāsā] ær å Át[ Ásh^Ár a] aðæh Át[ Á &[ } • d` &cā] } LÁs@;!^-{ !^Êsc@ Á] [ cr} cāseļ ás] assor Áseh Áse] cāsā] ær å Át[ Ásh^Ár] æsāp, `[ A ā] aðæh ÉÁ

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## **Construction Phase**

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Óæ•^åÁ[}Ác@`Áæà[ç^ÉA|[&æ‡Áå^\*¦æåææ‡i}Á[~Ác@ Áæ‡ àã\*}oÁæ£iÁ``æ‡ãĉ Áå`¦āj\*Á&[}•d`&c‡i}Áã\*Á &[}•ãå^¦^åÁţiÁå^Á ãc@áæ4á\*^|ã@[[å4ţi~Á]\_Y`mhflŁáæ)åAbY[`][]V`Y`f1/Ł4Ô[}•^``^}&^Á ãc@áe)4ţiç^¦æ‡|Á `ck`flŁÁQ]]æ&cÁ:ä\*}ã&æ)&^ÉÁ

### **Operation Phase**

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### **Decommissioning Phase**

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### **Operation Phase**

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Ü^}^,æà |^Á^}^!\*^Ár•oc{•Áij,&|`åij,\*ÁÚXÁ,[,^¦Á,|æ),orÁæd^Á&[}•ãa^!^åáA([Áa^Á&]ã]æc^Á&@e);\*^Á {ãuãtæaā]}Á,![b% &orÁij,Ác@Á\*^}•^Ác@æbÁc@ālÁ&^] |[^{ { ^}ch}ofA•`|orÁij,Áæ),Á;ç^!æ|Á^åč&aã]}Á; ~ÁÕPÕÁ ^{ ã:•ã]}•É&æ Ác@^Ác^}åá{[Á^]|æ&cÁ;[!^Á&ædà[]Eä;oc}•ãç^Ác^&@;[|[\*ã\*•Áã^Ác@Á&[æ4Á;!Á@æç°Ë ~`^|Áã^åA'|^&da&A,[,^!A]|æ;orĚ4/@áÁsiÁc@Á&æ^Á§jÁR[¦åæ;A;@!^Á';¦ãa Ë&[}}^&ccåA()XÁ^•oc{ •Á !^•`|of§jÁ;~•^ccã;\*Á'|^&da&e4Á,[,^!Ác@ædÆiá[;acc];ã\*^Á;![åč&^åÁa^Áč^\*/A,[,^!\*aÅA;|^&da&A,[,^!A

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FÎ ÁUc@¦Á^{ ã•ã]}•Áæ^ÁÕPÕÁ^{ ã•ã]}•Áæ•[&ãæzåÅ, ã@Ác@Á'^}, æà|^Á^}^!\*^Á&jã æzÁ'^jæzåÅj![å\*&e Á']•d^æţ Á³] \* Étaj åÅåã][•æthæ Å^-aj ^åÅà^Âc@Á'/\*/\*\*^Á&jä æzÁ'/aæzåÅj![å\*&e Á']•d^æţ Á³] \* Étaj åÅåã][•æthæ Åå^-aj ^åÅà^Âc@Á@ÔACÔPÕÁ&S&[ \*]•d^ætÅ \* ãæj &^Áj[ c^ÉA/ ]•d^ætÅ] \* Étaj åÅåã][•æthæ Åå^-aj ^åÅà Åc@Á@ÔACÔPÕÁ&S&[ \*]•d^ætÅ \* ãæj &^Áj[ c^ÉA/ ]•dÅ 2011) which are partly related to Scope 3 emissions; also as mentioned in the above guidance note, "For IFC investments wher^Á 3 åã^&AOÔPÕÁ{ ã•ã}) \* Áare too difficult to estimate, certain conservative default emission factors for solar PV can be used". Å

] |æ) dŽ\V@ Á|æe^•oÁÔælà[} ÁÒ{ ã•ā[} •ÁÒ•cā[ ææā[} ÁV[[|ÁQÔÒÒVDÁã•`^å Áà^ Ác@ ÁQOÔÁā] ÁGEFIÁ ā) åã&æe^•Ás@æeÁs@ Á{ ã•ā[} Áæ&d[¦Át[¦ÁæÁ, @á(-Á\*|^&d&3&ãc´Á;¦[å\* &^åÁs@ Á\*¦ãáAáj ÁR[¦åæ) Ás[Á\***'+''(&** [**`7C<sub>&</sub>Ye#\_k\**ÉA&[{] æ}^åÁd[Ác@ Á! €Á\*ÁÔU G^\*Ð, @Áæe•[&ãæec\*åÁ, ão@Ác@ ÁÚXÁ|ã^& & &|^ÁÕPÕÁ ^{ ã•ā]} Á, @ã&@Á,@ 、•Ác@ Á^å\*&cā[} Á;[c^}cãædAí, Á\* & @Á[|æ4Á;¦[b\*&o-ÈĂ

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C<del>CCÎECC</del>Á, ]Á¢ÁFÍ΀<sup>FÌ</sup>Á, @D, ]Á₩ŴMÁFFC<del>ĨECCÎECC</del>Á, @D^æłÁ

MÁÇHFGÊECEÉECEÁ Y @Á¢Á HÌ ÈL Á ÔU GEÐ, DÁDÁFECEEÉECEÁMÁÇFJÌ ÊLÎÌÈLÁXÔU GÁ ĭDÁDÁFÊECEÉA

V@:\^-{ \^Ê&@ A\${ ] æ&oA\$a`^|a\$Q[ åÁ\[ { AÕPÕÁ\{ ã • ā{ } • A\$\$ k\$\$^\^\^Á } |ð ^| Å, f=DÊ, ão@\$xxA, ^\* |ð āb|^Á, f=DÁ &[ } •^~``^} &^ÊA`d`|å3] \* Áx3 A{ ç^\;z#|AbY[ `][ ]V`Y`fD&L'ã[ ] æ&oA\* ð } ã&Baa} &^È

## 9.2.1.3 Bc]gY

### **Construction Phase**

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P^}&^Êábó&æ)Áa^Á&[}•ãå^¦^åÁs@æcÁs@A[}|^Á@{ & a)Á^&^]q[¦•Á]@{Á&[`|åA[[c^}]cãæ||^Áa^Áa[]æ&c^åÁ à^Ás@Á[ã^Ásc+Ás@Á{]|[^^^•Á[!\]]\*Á]ã@3JÁ@A[![b'&cA[ã\*Ás]`|]]\*Áse•ã}}^åÁ[[!\]]\*Á@[`|•ÉÁ

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<sup>FÌ</sup> ÁÓ az «å Á;} Á vç] ^¦ó Ászá SA Á; à czanj ^å Á; [{ Á cz ÁÞ asznij } a Á/Ó] ^¦\* ^ ÁÜ ^ • ^ > a 8.69Ó ^} d ^ ÁÇ ÓÜ Ô EB/Ű [ ^ a Á/Ú & A'; [ & A cz A j \* Á j ( A cz A j \* A j ( A cz A z a j cz A a cz A j \* A j ( A cz A z a cz A i A cz A z a c

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ÁP[,^ç^¦Éźo@••^Á;[ã\*^Áā;]æs&orÁæk^Á;[oÁ&[}•ãå^¦^åÁq[Á\*ã]}ãã&æa;d^Á@æk{Áæa;a;憕Á;[¦Á&æĕ•^Á ā;]æs&orÁ;}Áæá,[]`|æeā;}Á^ç^|Á\*ã;&^Ác@^^Á;ā;|Á%a^Áx^{[]|æe\*ÈÁ

Ù∄,&^Á@^Áæ&cāçãa?•Á,āļļÁ,&&`¦Á}å^¦Á,[¦{ æ‡Á]^¦ææ3;\*Á&[}åãa‡}•Áæ)åÁæ^Á\*¢]^&c^åÁţ Á@æç^Á;}|^Á |[&æ‡ã^åÁæ)åÁc^{][¦æ‡^Á~~^&c•Á,ão@3;Ás@Aj;¦[b^&cAæ2 Åæ6Åæ]]æ&cÁã(`]æ&cÁã^\jã@[[å/ãi`jYfm`]\_Y`mif(ŁÁ ¸ão@Áæ4bY[`][]V`Y`f1/4LÁ&[}•^˘`^}&^Ê&@ •Á@ Áã[]æ&cÁã }ã&Bæ3;&^Áã Áck `f(DěÁ

## **Operation Phase**

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O = ÁæÁ^• ĭ |dÉk@ /áį ] æ&o/ái Áç^¦^Á } |ã ^|^ÁÇFDÉĂ, ão@áæÁ, ^\* |ðt ãa |^ÁÇFDÁ&[ } •^``^} &^Éko@ •Éko@ Á; ç^¦æ|Á •ðt } ãð&æa) &^ ∕ái ÁbY[ `][]V`Y`fD &L'''V@ ¦^-{ ¦^Éh, [á, ãoðt æaðt] } Á; ^æ•` ¦^•Áæh^Á, ^^å^åÈ

## **Decommissioning Phase**

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## **Construction Phase**

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8[}•d`8cā]}Áį~Áį~a8x^Ásiăaâj\*•ÁsejaÁsjç^¦cº¦Ásiăaâj\*LÁQQ,^ç^¦Á[ā)Á\*¦[•ā]}Ádāt\*^¦^aÁ\[{Áiã\*^¦^áA; æ8cāçānāt•ÁsiÁs[}•ãa^\^àA;[ā][¦ÈÁ/@)Át[]Á[ā]Á;æet\lãadÁ;ā]Á^{ æet\lãadÁ;ā]Á^{ æet\lãadÁ;

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Cē•`{ āj\*Ác@eezÁ+] āļļÁ^•] [}•^Á] |æ)•Á+ @æļlÁa^Áāj Á] |æ&^Áa`Ác@Á&[}dæ&c[¦ÉźñaÁ#i Áæ) cā&āj æe^å Ác@eezÁ ã[]æ&c•Ád[Á•[ājÁ¦^•`|cāj\*Á-¦[{Ác@•^Áæ&cãçãa?a•Á,ā]lÁà^Á`]\_Y`mifl k2zÁ,ãc@ÁæáAa Uf[]bU`fB&LÁ &[}•^``^}&^ÉÁ ?å'|åāj\*Áæáa YX]ia `ffiDÁa[]æ&có4 ãt}ãa3&ea) &^ÉÁ

### **Operation Phase**

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V@·¦^-{¦^Êko@a`Áā;]æ&o%a`Áib`]\_Y`mifBLDÉ,ão@ÁcoÁaUf[]bU`fBŁÁ&[}•^˘`^}&^ÊA`ā\|åāj\*Áæ)Á[,ç^¦æ|Á `ck`fBŁÁā;]æ&oÁ\*ā\*}ã&a∂ &^ĚÁ

### Decommissioning Phase

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### **Construction Phase**

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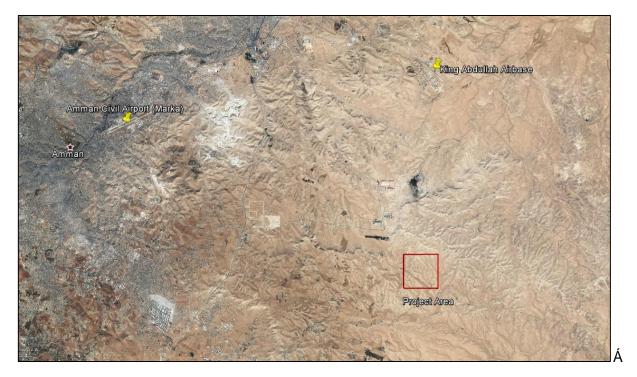
^}çā[}{ ^}œa|^Á^}•ãaãç^Ásd^æ=Éj,æč¦æ‡Á^•^¦ç^•Éát[][¦œa);o4sāåáÁsd^æ=Át¦Á^•ãa^}cãa‡Ást\_^|lāj\*•Á ÉKo@Áçã=`æ‡Ástd`•āt]}•Á;āt|Ásu^Áat[ãe^åÁt[Á\*{][[^^^•Ěát]]

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#### **Operation Phase**

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:][ifY`\*).`Dfc^YWh``cWUh]cb`k]h`fYgdYWhic`bYUfYghU]fdcfhifibkUmg`

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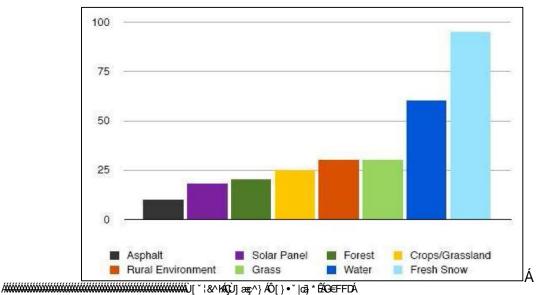
- •Á Ù[|æł,Áæ)^|•Áæ<sup>4</sup>/å<sup>4</sup>, \*å<sup>4</sup>, \*å<sup>4</sup>[Åæè\*] | à Áð @Êæe Áæá<sup>4</sup>\* (of, )|^ Á<sup>4</sup>/48.
  •Á ù[|æł,Áæ<sup>4</sup>/28.
  •č] |ð @cÁc@æcÁæ<sup>4</sup>/4, } Ác@{ Á8[ { ] æ<sup>4</sup> å Áť Áť [ cÁ c@¦Á<sup>4</sup>, \*<sup>2</sup>, å æ<sup>6</sup> Át à b<sup>6</sup>8.
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  •č] |æ<sup>4</sup>/3,æ<sup>3</sup>/1\*, \*<sup>4</sup>/8.
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  •č] |æ<sup>4</sup>/3,æ<sup>3</sup>/4\*, \*<sup>4</sup>/4\*, \*<sup>4</sup>/8.
  •č] |æ<sup>4</sup>/3,æ<sup>3</sup>/4\*, \*<sup>4</sup>/4\*, \*<sup>4</sup>/8\*, \*<sup>4</sup>/4\*, \begin{split} & (\Delta e^{a} A_{i}^{A} $

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<sup>&</sup>lt;sup>FJ</sup>@cd\_Meeg\_\_\_\_È[|æ&&@\_82∧È^deeĕBal[\*Đ]B&{}@}0Đ][[æå•ĐÜ^4^&aaçãc´Ë-EÜ[|æEÖ|^&d38EŰXËT[å`|^•Ètå-Ètå-Á Á

\* |æh ÈÁO' ¦o@ ¦{ [ ¦^ÊÁo@ ÁO/å^¦æþÁOEçãæeāţ } ÁOEá{ ājā dæeāţ } ÁQZOEDEAÁjÁo@ ÁWÈÜÈDÁ] ča |ã@ åáÁæá \* čãæ aj& AájÁ¤[ ç^{ à^¦ÁOEF€Á @3&@Ájã c\*åÁ\*ã @04[ |æbÁ; [ , ^¦Á; |[ b\*&or ÁxeeAaáţ ¦ÁxeåbæeA> óAg Áxeaí] [ ¦or Á ; @3&@Á@eç^Á&[ { ] |^c\*åÁOOEDExe•^••{ ^} or È&Q ÁxeþÁt, Áx@ •^Á&æe^•Exs@ ÁOOEDExa^c\*; { āj^åÁx@æxÁxᥠ||Á ¦^çãr, ÁsrÁ [ oÁ^~ čã^åÊáţ ¦Á^æ&@ åÁxeÁajåjå j\*Áţ ~Á'} [ Á@ee æså"ÈEÁ

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: ][ifY`\*\*.`7 cadUfUh]jY`FYZYWNjcb`5 bU`mg]g`cZX]Z2YfYbhaUhYf]U`

CE; [c@; |碾; ] |^ÆsiÁs@ÁØ!^•} [ÁCE3] [; kó&s^ç^|[] { ^} xó&si ÁÔæqä[; } ãxÁQVNÈÙÈDEÁ; @38.@4si Ást+• [Á[&æe\*åÁ ĝiÁc@ÁäjæqÁqe] ] ; [æ&s@Ásd^æA[; |Á; }^Á; Ác@Áseäi] [; ká: }, æ\*•ÈA/@ÁÚ|æ) } ĝi\*ÁTæ) æ\*^; A[; kố2!^•} [Á CE3] [; kó@e> Á&[ }-ä { ^å Ác@æeÁc@; ^Á@æç^Áà^^} Á; [Á&[ { ] |æäj•A; [{ Áj ä[•A; ; Å&[ } d[ ||^; •Áæ) å Ác@æ Á ; ; lãc^} Á§[ Ác@Ás^ç^|[ ] ^; •Á; Áse) [c@; IÁ[ |æ; Á&@{ ^Á§IÁc@ÁNÙCEÁcæeã] \* Ác@æeÁi^, -4^&cãçãc Ási Á; [xáæ] Á ã • \* ^Á[; !Áseçãæeā] } ÄÈÁ

 $T [ |^[ c^{} | Ê] [ A] ^{ada} A ^{ada} a ^{ada$ 

 $\label{eq:constraint} V@A_i \mid b^{0} \delta a^{-1} a^{$ 

Q45aÁQQ, ^ç^¦Á••^}cãadaki[Á][ā]cA, `cko@eccká@A5jc'}•ãcA, Afat@cA^-/^&c^aA4[{ & kaAÚXA, [å`|^Á`¦~æ&^Á å^]^}å•A, }Áæ&q[¦•Á`&@kecká@Aseq[[`}dA, A`}]at@cA^æ&@3j\*ká@A`¦~æ&^ka9jaA, ajká@!^-{¦^k;æA^Á àæ^aAA[}ÉEæq[]}\*Á[c@:|•ÉA\*^[\*¦æ];@BAA[[&æaat]}ÉEcat[^A[-A^^æEA&][`aA8[ç^¦Éeæ];åAÚXA, [å`|^Á [¦at];cæat]}ÈA

*Á*ÍÔÙQEËZĘĨ;æ∮ÁÜ^][¦ơÁĺ

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## **Decommissioning Phase**

Ö`¦āj\*Ác@Áåãa { æ) qāj\*Á[~Ác@ÁÚXÁ] [, ^¦Á] |æ) dÊÁ¦^{ [çæ‡Á[~Áæ) &ā||æ<sup>1</sup>, Áæ3 aðaiæ? Áæ3 aðaiæ? ÉÁæ) åÁc@Á ¦^@æa ājāiææā] }Á[~Ác@Á] ¦[b% o Áæ^æ^áÇāÁ}^^å^å DÊÁçã \* æ‡Áāj d\* •āj } •Á, āļ|Áà^Á|ã^|^Áà\* o Ác@ãA &[} •^\*\*^} &^Á, ā]|Áa^Á,^\*|āt ãa |^Áa\*^Á¢[Áæ3 o Ác@æeÁ\* & @ás[] æ8 o Á, [\*|å Áa^Ác^{ { ] [}æ^AýC ç^¦ÁæA @; loÁ ]^¦āj å DÊÁT [ ¦^[ç^¦ÉÉc@Áæ8c\*æÅåãa { æ) qāj\*Á[~Ác@ÁÚXÁ] [, ^¦Á] |æ) o Á, āļ|Á^å\* &^Á[; Á^{ { [ ç^Ác@Á çã \* æ‡Ás[] æ8 o Á, ãj ^••^å Áa\* i āj\*Ác@Á;]^¦æaāj }Á; @æ•AÈÁ

V@\^-{\^Êxc@^Áā{] æ&o^{\ã^|a@u[åÁā`Aj Yfmib`]\_Y`mift/kká\*āç^} Ác@æeÁc@\\^Á,ā|Aà^A\^{ ^åãæeā{}}Á ]\[&^å`\^•Á{}`A`āz^ÊA,ãc@Áœ∕bY[`][]V`Y`ft/kká&{}•^``^} &^ÊA`ā`\åãj\*Áæ}Á{;ç^\æ‡|AbY[`][]V`Y`fD&L' ā{] æ&dÈ

## - "&"%" K UghY A UbU[ Ya Ybh"

## **Construction Phase**

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Þ[}Ë@zeælå[`•Á,ærc^Ánj&|`å^•Á,ænj^¦ÊÅ,[[åÊÅ,|æræ3&ÊÁ&¦ænjÁ(^cæn+Ê4,|ær•Áæn)åÁ(`åÈÁPæælå[`•Á ;ærc^Ánj&|`å^•Áænà•[¦à^}cA(ærc\äan+Êbaæccc'}år•ÊA(a^can+Áa¦`{•ÊA{]c`Á&@{&aan+Á8[}cæni,^!•ÊA ;ærc^ÁnjÁA¦[{Á(æ&@nj^\:^Ái`à!&&æn)cÊAc&EÁ

 $\begin{aligned} & C\label{eq:constraint} C\label{eq:constraint} C\label{eq:constraint} C\label{eq:constraint} A &$ 

V@^Áā[]æ&o^{jā^|ã@[[å Áā: Á]\_YmflŁÁæ;)å Á&[}•^˘`^}&^Áā: Uf[]bU`fBŁzÁc@ ¦^-{¦^Éźc@^Áā[]æ&oÁ •ã }ãã&æ;)&^ÆiÆe•^••^å Æe Áa: YX]ia `ffŁ"

## **Operation Phase**

Yæ c^Á^}^!æc^åÅå` ¦āj \* Á] ^ !æɛā] } Á @æe ^ Á āļ/Áa^Áā[ãc^åÁ4[Á,æe c,æc^!Á4][{Á[æā] c^}æ] & Áæ) åÁ cleaning activities in addition to domestic waste (due to workers' domestic activities). Á

 $\begin{aligned} & \mathsf{CI}_{\bullet} \left[ \operatorname{Aa}_{\bullet} \left\{ \begin{array}{c} \wedge \bullet \operatorname{cas}_{A} & \operatorname{cas}_{\bullet} & \operatorname{c$ 

Yævc/Å^}^¦æaāti}/åů`¦āj\* Á@Aáti]^¦æaāti}Afi@eve^/ási/&[}•ãa^¦^åAfiækafi,~ååAaædafi,~ásiæaāti^Áti]^¦æaāti}•Ésb@¦^-{|'^ÉA ãvÁsi Á;[oÁ&[}•ãa^¦^åÁti[Á@æç^Áæ)^Á\*āti}ãã&æ)oÁsti[]æ&vo Áti[Áo@A^}çāti]}{^Å\*ãe^Asi`¦āj\*Áti]^¦æaāti}+Á\_āti^ie[}}^|Á ;[¦\āj\*Áti}AfiætAfi\*ãç^}Ac@æeAc@Áti`{ à^¦Ati~Afi^!•[}}^|Áti}AfiætAfi\*läj\*Áti]^¦æaāti}+Á\_ātiAfiAfiætAfi\*läj\*Áti] GEËHEAfi^!•[}•ÈÉÓ![\^}Eatætiæt^åÁsej åAsiãe &ætå^åÁtÚXÁti[å`|^•Afi@ætiAsi^Asuj^àAsi[}œaātiAsti] through proper handling as per manufacturer's procedures and disposed at licensed dumpingÁ

æ^æ þæ) å-aļ • Ác@æÁ&æ) Áæ&&[ { { [ åæ^Á\* & @Á{ æ^¦ãæ Á-Áæ Á[ ¦Ác@aj Áa]{ ÁÇÔå V^DÁÚXÁ{ [ å ' |^•ÉA æc@`\* @Áæ^Á}[ ơÁ^¢] ^&c^åÁ[ Á] [ • ^Áæ) ^Á'ā \ Á @} Áaj Á[ ] ^¦ææa] } Á} [ ¦Á, aļÁc@ ^Á\*^} ^¦æc^Áæ) ^Á cadmium (Cd) emissions. According to a published research '' CdTe modules are very well sealed and Cd cannot be released during normal operation'', ''If a collection and recycling ] ¦[ \*¦æ{ Á ^¦^Á•œaà]ã @ åÉæļÁ@ æc@&[ } &^'} •Áæà[ ` óÔå V^Áæ} åÁ] c@ ¦Á'} å Ё -Ёã^Á] @ d ç[ |ææAÁ modules would be resolved fully''<sup>œ</sup>ÉÁ

ā/Āē;Á,[¦c@Á,^}cā;}ā)\*Ác@æeÁc@A@æ)å|ā)\*Á,^c@QåÁ,ā|Aà^Áàæe^å/a;}AæÁ&[{àā}æeā;}A;~Á^¢]^¦cã^AÁ •`&@ÁæeÁc@Á^&[{{ ^}åæeā;}•Á;~Ác@ÁTā;ã:d^Á;~ÁO}çā[]{ ^}dÊ4,æ)`~æ&c`¦^¦Á^``ā^{ ^}orÁe3;åA c@ÁUBTÁc^æ{Á^¢]^¦ā?}&^ÉÁ

### **Decommissioning Phase**

Yæv c^Á^}^!æz^åÁsĭ'¦āj\*Ás^&[{{ã•ā;}āj\*Áqã;ãc^åÁqã;ãc^åÁqã;Á,[}Ë©zeæåå[ĭ•Áæa;åAşā,^¦óA;æv c•Áĭ&@áæeÁ •&¦æajÁ(^cæa+eÉ)]æaj^¦ÉA;[[åÉ4]|æv cã&É4\*ãç^}Ác@æaÁc@^Á&[}d æ&da[¦Á;ã||Áæaå@^!^Ádī;Ác@^Á+^oA;æv c^Á {æ)æ\*^{^}oA;¦[&^åĭ¦^+ÈÁ

QÁ&[{]|^cr/Ásh^&[{ ã•ā]}ā]\*/ãrÁt[Át&&`¦Á-ÁstÁjā]Áseeh^Át]|æ&hÁste[`}åÁG€Á^æt•Át[{ Át[, Át¦Át[¦^ÉA c@¦^-{¦^Át[¦^Átx^!cæan]c`Ájão@Á^\*ætå•Át[Átaã][•ætÁt,^c@tå•Ájā]Ásth^Ástaætå\*å/Ástaætå\*å/Ásta@}Åsh^Asta@}Åsh^Asta [~Á}^, Áæçæanaæta)^Ách&@;[[[\*ã+óætaå\*át!^`•^Eh& & &]ā]\*Á[]cāt}•ÁætaåAt[c@:¦Áæt]]'[]¦ãæchÁstaã][•ætÁ ~æstañata•ÈÁ

V@Áā[]æ804[.4],æ9c^Á\*^}^¦æeā[}ÁārÁ8[}•ãa^¦^åÁib`]\_YmifBkzzá],ão@áæxá8[}•^``^}&^Á[.4a Uf[]bU` fBkLáš`¦āj\*Át[Ás@árÁc^{][¦æ^^Á],@ee^É\*áç^}Ás@eexá]^&ãã&A,æec^Á[æ}æ\*^{{ ^}c^],[&^å`¦^•Á,ä]/ás^Á ã[]|^{{ ^}c^åA[;}Á;ãc^ÉA:ða|åāj\*Áæ)A[ç^¦æ4]Áā[]æ8cóA:ða]ãã&æ3;&^Á[.4ck:f(kĽÁ

<sup>G€</sup>Á<u>@ad•Heng, Èa}lÈ[çen</u>çBa∦^•entå-Baeko′FÎlÈtå-Á Á

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#### - "&"%"+` K UhYf F Ygci f WYg`

#### <u>Gifzuwy'k Uhyf</u>'

#### All Phases

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Óæ ^ å Á;} Á@ ÁÔ[{]` ơ å ÁÖ ^ • ã } ÁØ|[[å • ÁÜ / |æơ å ÁØ / ` ` ^} & ` Á Á:] ^ &ãã8æ #|` Á[ ¦ÁŒ Á ^ æ • ÁŒ UV`Y` '\* ÞŹ, ![çãa ^ å Á5j, Ác@ Áaæ ^ |āj ^ Á: ^ &&㇠} Á; ~ Ác@a Á Ô Ù ODEA čå ° ÊA [{ ^ Á, æåã Á @æç ^ Áæ Á@ č @ ¦ Á c@æ} Á; c@ ¦ • Áæ} å Á^ ` ĭa ^ Á& \ cæaj Á; ããã æ a‡} • Á: āj & A Ác@ ^ Á@æç ^ Á@æt@ \ Á, [ơ } cæa A [[å Á\* | [å Á\* | [å Á\* | [å Á\* | [å Á\* | [å Á\* | [å Á\* | [å Á\* | [å Á\* | [å Á\* | [å Á\* | [å Á\* | [å A \* ] ] \* Á c@ Á &æ ^ Á[ ~ Á @ æç ^ Á |æðj ~æ # ÈÁ OE [ Á ãa\* ] \* á æð å Á, æåã Á á\* | ð] \* Á c@ Á @ å |[[[\* ^ Á • čå ^ Á, ã @ Á c@ ã Á \^ & [{ { ^ å ^ å Å å |æðj æ\* ^ Á[]` cā } Áæ ^ Á; |[çãa ^ å Á5j Á @ Áa / [] , Á /æà |^ ÈÁ

5fYUBc"	<b>&amp;) !mYUf</b> <sup>·</sup>	FYWcaa YbXYX <sup>*</sup> 8fU]bU[Y`Gc`ih]cbg <sup>*</sup>
FÁ	€ÈÍ GÁ	Ù`¦~æ&∧ÁÞæč¦æ∲Ö¦æ≣jæ≛^Á
FËæÁ	€ÈFÏ Á	Ù`¦~æ&∧Ár>æč¦æ∔Öc¦æajæ≛^Á
GÁ	FÈHIJÁ	Ö[,}•d^æŧ Á;æłoókį Áa^Á;¦[c^&c^åÁ
HÁ	FĚ€ÍÁ	Ö[,}•d^æŧ ÁjæłoÁŧ[Áa∿Áj.¦[৫∿&c∿åÁ
ΙÁ	€ÌÍ€Á	Ö[,}•d^æŧ ÁjæłoÁţÁa^Aj¦[৫∿&c^åÁ
I ËæÁ	A IU <del>I</del> €	Ù`¦~æ&∧Á¤æč¦æ‡/Ö¦æajæ≛^Á
ΙËaÁ	€ÈJÏ Á	Ù`¦~æ&∧Á¤?æč¦æ‡/Ö¦æ≣jæ≛^Á
ÍÁ	I È€FFÁ	O≣ Ác@∿Á]ætoÁc@eneÁ [&æec^åÁÁ6]•ãå^Ác@∘Á] [oÁq[Áà^Á ]¦[o∿&c^åÁ
ÎÁ	GÈ€ÎÍÁ	Ö[,}•d^æŧ ÁjæłóÁştÁå^Áj¦[ơ∿&ơ∿åÁ
ΪÁ	HĐË FÌ Á	Ö[,}•d^æŧ Ájækókŧkå^Aj¦[ơ∿&ơåÁ
ÌÁ	FÈGÍIÁ	Ö[,}•d^æŧ Ájækókŧkå^Aj¦[ơ∿&ơåÁ
ÌËæÁ	f <del>ìt</del> ì gá	Ö[,}•d^æŧ Ájækókŧkå^Aj¦[ơ∿&ơåÁ
JÁ	GÈÌHHÁ	Ö[,}•d^æŧÁ,ækoÁţÁa^A,¦[c^&c^åÁ
F€Á	FÈFGÁ	Ö[,}•d^æŧ Ájæłóką́Áa^Áj¦[৫∿&c^åÁ
FFÁ	ÎÈHHÁ	O≣ Ác@∿Á]ætoÁc@eenÁ [&æec^åÁÁB]•ãå^Ác@∘Á] [oÁq[Áà^Á ]¦[o∿&c^åÁ
FGÁ	FFÈIÏ <sup>G≖</sup> Á	Þ[c@3]*Áq[Áà^Áå[}^È¥QAÁārÁ [&æez^åÁ[čonãa^Ác@ÓÁ ] [dÈĂ
FHÁ	QÈ⊒ÎÎÁ	Ö[,}•d^æŧ ÁjæłóÁţÁå^Áj¦[৫∿&c^åÁ
FI Á	ÎĒÌÌFÁ	Ö[,}•d^æ{ Á;æłoÁ{(Áà^Á;¦[ơ∿&ơ°åÁ

#### HUV`Y' \*. FYWca a YbXYX'8 fUjbU[ Y'Gc`i hjcbg'UbX'DfchYWijcb'

<sup>GE</sup>Áp[c^kÁY æåãÆGÆá Áseá&[{à∄]æa‡i}Áa^ç ^^}Áa[c@Á Áse}åÁFFÁ æåã Ás@æeÁ[&&æe^å/å[]}•d^æ¢ Á(`orãå^Ás@A,![b^&o/æé^æÉÁ

5fYUBc"	<b>&amp;) !mYUF</b> `	FYWcaa YbXYX'8fUjbU[Y'Gc`ihjcbg
FÍ Á	ÌËÏÎÁ	O⋕Ác@ÁjæicÁc@eeÁ[&æer∿åÁAj•ãå^Ác@Áj∥cÁqEÁà^Á ]¦[c^&c^åÁ

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 $P[ \ ^c^{+}EA \ c@[ \ ^ * @A \ c@ \ A \ a \ ] |^{ } A \ ceeaa_{} \} A [ -A \ c@ \ A \ ^ * *^{+} C \ aA \ |^{ } A [ { } A \ aeea_{} ] A \ aeea_{} A \ aeea_{} ] A \ aeea_{} A \ aeea_{} ] A \ aeea_{} A \ aeeaa_{} A \ aeea_{} A \ aeeaaaeeaaeeaaeeaaeeaeaeaeaeaeeaeeaeea$ 

## <u>; fcibXkUh¥f</u>

### All Phases

 $V @ \dot{A} \mid [b & \delta \dot{A} = \delta \tilde{a} + \delta$ 

 $O \bullet \dot{A} = \dot{A} = \dot{A} + \dot{A} = \dot{A$ 

 $V@\dot{A}a[] = a a b d \dot{A}a^{a} | \tilde{a}Q[ a \dot{A}a^{b} \dot{A}a^{b} + \wedge + \wedge a \dot{A}a^{b} \dot{A$ 

- "&"%", ` 6]c`c[]WU`9bj]fcba Ybh

## **Construction Phase**

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Óālå|ã^ÁQ; c^¦}æaā[;}ædÁ)[ælā]\*ÁÓālå•ÁJ^}•ãuã;ã:ÁTæl]]ā]\*Á/[[|Á;æ-Áad]]|ā\*åÁ[iÁs@Á;¦[b\*8oÁiã^Á;ãu@Á æ•`{]cā[}•Á[-ÁF\{ÉA({ÉÁ\{ÉA; {Ácd}åÅF€\{Áà`~^¦Áad[`}åÅÆ(`}åÅc@Á];[b\*8oÁad\*AzEZO[[Áæ•`{]cā[}•Á

 $\begin{array}{l} (2 + 2 + 2) \\ (2 + 2) \\ (2 + 2) \\ (2 + 2) \\ (2 + 2$ 

V@Á¦[][•^åÁ¦![b\&okad^ædå[^•Á,[okal];œeajÁ,!Á`¦![`}å^åÁa^áka^ÁagiÁ][¦œegióAátāiåãç^\!•ãĉÁ@eàãæædĂ V@Á@eàãææerÁ; Áx@Áxd^ædad^Á@et@`Á¦æt{ ^}c^åÁxegiåÁç^}Åa^cv¦ātiæesåÁ,@¦^Áç^\*^œeatāi}Á&[ç^!Á ãrÁç^\:^Á[]ĔAOE[•[Ác@Áxd^æd^æerÁxæ4;ã]}Á; Á+[|ãáÁ]æ•cvÁa\*{]引,\*Ác@æetÁ; æêÁ;&&č;lÁta|/\*æ]Å&[ç^!Á d`&\•Ác@æetÁxd^Áæ••`{ ^åÁt[Átæ)•-^¦Ác@Á;æ•cvÁajd[Ác@Á,^æàà^ÁOE[ÁÕ@æàæ;ãÁŠæajå-át|ÁæeÁ;@];}Á à^|[]ÈÁ



## :][ifY`\*+.`Gc`]X`K UghY`ZcibX`k]h\]b`dfc^YWhUfYU`Uhih\Y`h]aY`cZV]c`c[]WU`Ybj]fcbaYbh gifjYmi

 $\begin{array}{c} \mathsf{Ce} \widehat{\mathsf{Aee}}^{\mathsf{A} \circ \mathsf{*}} & | d\widehat{\mathsf{E}} \widehat{\mathsf{a}} \widehat{\mathsf{A}e} \widehat{\mathsf{A8}}_{\mathsf{A8}} & | \mathsf{A8}_{\mathsf{I}}^{\mathsf{I}} & \mathsf{A}e^{\mathsf{A}} \widehat{\mathsf{A}e} \widehat{\mathsf{A8}}_{\mathsf{I}}^{\mathsf{I}} & \mathsf{Aee}^{\mathsf{A}} \widehat{\mathsf{A}e}_{\mathsf{A}e^{\mathsf{A}}} & \mathsf{Aee}^{\mathsf{A}} \widehat{\mathsf{A}e^{\mathsf{A}}}_{\mathsf{I}} & | \widehat{\mathsf{A}ee}^{\mathsf{A}} \widehat{\mathsf{A8}}_{\mathsf{I}}^{\mathsf{I}} & \mathsf{Aee}^{\mathsf{A}} \widehat{\mathsf{A}}_{\mathsf{I}}^{\mathsf{I}} & \mathsf{Aee}^{\mathsf{A}} & \mathsf{A}_{\mathsf{A}}  

 $\ddot{O}^{\hat{A}_{1}} \wedge \dot{A}_{2} \wedge \dot{A}_{1} \wedge \dot{A}_{2} \wedge \dot{A}_{1} \wedge \dot{A}_{2} \wedge \dot$ 

## **Operation Phase**

Oē Áåãa & ••^å Áæà[ç^Êæa) å Á\*áç^} Áo@ezeÁo@ Á] ¦[b% &oÁæh^æÁæa||•Ájáo@3jÁæáhå^\*¦æå^å Ájæč¦æ4Á\*^•c^{ A æ) å Ášar Áj[[¦|ˆÁç^\*^œer^åÁjáo@4kjājā[æ4Áæč}æ4Áåãç^¦•ãcÊÉÁ

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## Decommissioning Phase

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### **Construction Phase**

 $\begin{array}{c} \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g}_{\underline{g}} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g} \dot{A} & \otimes & \mathsf{K} \\ \textbf{GUZYImif} \underline{]g} \dot{A} & \otimes & \mathsf$ 

T[¦^[ç^\ÉÁc@A&[}cæ&d[\Á•@ed|Á]'|[çãå^Áæd|Áæd]]'|[]¦ãæe^Á¦^•[`'\&^•ÁQÚ^!•[}ædÁÚ'|[c^&cãç^Á Ò``ā]{ ^}cDÁ[}•ãe^Ád[Á^}•`'\^Á]'|[çãåā]\*Á~ãt•oÁæãaÁ~{{\Á]^\•[}}^\AjA&æe^Á[~Á[&&`\\^}&^Á ^{ ^\\*^}&&= ĚWWA

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Õãç^}Ác@Á@ æ¢c@Áæ)åÁ\*æ^ćÁ\*^•c^{Áæ}åÁ]¦^&æčqã}•Ác@æcÁæ^Á\*¢]^&c^åÁ[Áà^Áæ]]|ã\*åÁà^Ác@Á &[}dæ&q[¦Êác@Áã[]æ&cÆiÁ&[}•ãå^¦^åÁ{[Áà^Á]\_Y`mifl上,ãc@ÁæÁ¥V]h]VKU`fl上&[}•^``^}&^Êáã\*|åã]\*Á æÁa YX]ia `flŁáã[]æ&cÁ:ã}ã&æa)&^ÈÁ

## **Operation Phase**

V@:¦^-{; ¦^É&@^Á; ¦[b%&o&s^ç^|[]^¦Á@eq|Á\*}•`; '^Áqe|Áãa、•Á';[{Á;]^;æeāj;}Áæ&cãçããã\*•Át;Ás^Áæ••^••^åÁ æ)åÁt[Á^•cæai)ã@ @4•]^&ãã&Á [;\Áj; |[&^å`; '^•Á{; ¦Áæe、•Áæ)åÁå^ç^|[]āj\*ÁU&&`]æeāj;}æeāj;}æeāj;}æeð; Ùæ^c´ÁBÁČ}çã[]{ ^}cæ4ÁÇUPÙÒDÁ; ¦[&^å`; '^•Á{; ¦Áæe\•Áq;}A;@ee^Áq;Á;!^ç^}oÁs@ Á5j&ããa^}&^Á [Á@æ¢c@Áæ)åÁæ^c`Áã、•Áæ)åÁæç[ãaÁ,[}Ë&[}-{;{ æ}&^A;ç^}o•ÈĂ Á

## Decommissioning Phase Á

GUZYImif]g\_gÁ`&@\$ee kádāj]āj\*LÁæqijāj\*Ásu`^ÁqiÁ,[¦\āj\*ÁseeÁ@`āt@e LÁj,[c^}caæqÁā^Ásu`^ÁqiÁq;c4,[¦\ĒÁ •{ [\āj\*ĒÁæaāj`¦^ÁsjiÁn|^&cta8æqÁsji•cæqiæaāji}•LÁn|^&cta8cÁqu&svi€Á

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¦^å`&^Ác@`Á&[}•^``^}&^•Á[~Á}[}Ë&[}~[¦{æ}}&^Á^ç^}o•ĚÁV@`Áå^ç^|[]^¦Á•@eq|Á^}•`¦^Áæq|Á ]¦[•]^&oÁã`\•Áå`¦ā]\*Áå^&[{{ã•ã[}}ā]\*Áj@ee^Áæd^Áæe•^••^åÁæ)åÁæq|Á,¦^ç^}cā[}Áæ)åÁţäãã ææã[}•Á {^æe`¦^•Áæd^Á§JÁ,|æ&∿Áæ&&[¦åā]\*|^ĚÁ

- "&"%%\$` GcW]c!YWcbca ]Wg``

Construction Phase

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### <u>9a d`cma YbhCddcfhi b]hjYg</u>`

Ú[•ãnā;^Ásh^}^~ãn•Á;~Ás@·Á;![b\*&o4; æʿÁselā;^Áł:[{Á@;ldĔr:\{ÁgiàÁ;]][¦č}ãnā?•Ási`¦ā;\*Ás[}•d`&cā;}Á @B&@A; æʿÁæ;\*^Á]Át[ÁHE€Átyià•ÁsœÁ;^æb ĚÚ^æiÁs[}•d`&cā;}Ás;Ás;Ås;Ås;Ås;Ä\*C]^&c\*åÁF€ËFCÁ;[}c@;Á;~Ás@A ]![b\*&dĚV@•^Á;^!•[}}^|Ás;&]`å^Ár}\*ã;^^!•É4;]^&ãna‡ã;œÊ4;![b\*&o4;æd;^!Áæ;àåÁr]!^•^}cæsã;^•Ê4 •`]]|ā\*!•Áse Á, ^||Áse Á }•\ä|^å/&{}\*ã;^Ai\*E4;]^&ãna‡ã;œÊ4;![b\*&o4;æd;^!Áæ;àåAr]!^•^}cæsã;^•Ê4 •`]]|ā\*!•Áse Á, ^||Áse Á }•\ä|^å/&{};\*ä\*Ås;}Ás[}éd`&cā;}Á;[!\^!•È4V@A;![b\*&o4s;^c,[]]^!Á;ä]Á\*;•`!^Ás@esAs@A { ætş!iã: Ásf project's workers Á @et|Ási^&ai82æe\*åÁt;!Án;[iåæ;ãæ;Á;[i\-{!&^Ê4;ãn@4;iã;ãã;ã;\*Át;&æsA -{ ¦Ás@•^ÁtyàA;]][¦č}ãæ\*•Ê4;@` ¦åÁs@āA`æfã38æe‡i}Á;æs&@ás@Á;^^^à^åA^``ã^{{}}œÈ4

Q,Ác^; { • Áţ - Át^} å^; Áã • č^• É co@ Ábţ à Áţ ]] [; c'} ãzð • Ábč ; lāj \* Á8[} • d` & cāţ } Áā Áţ zæŋ |^ Álāţ ãc^ å Át[ Áţ - ^} Á åč ^ Át[ Á/~čă ^ â ^ å Á; @ • ã8æq Ár --[; c• Áæj å Áţ co@; lÁ&č |cč ; æq Á&[} • ãb ^ ; æaāt] • É co@; l^-[; l^ Ábţ à • Áæç æaātæa |^ Át[ Á |[ & æ‡Áţ ^} Á&æj Áb ^} ^ -ātÁş [ { ^} Áb ãa ^ & d^ Ác@[č\* @ Ásč]] [; cÁ ^; çã& • Ásč & @ Áse Áset Ás ^} cāj \* Á@ { ^• LÁs DÁ • ^ ||āj \* Át[[å • Ásej å Á]; [åč & c• Ásj å ãa ^ & d^ Ás@[č\* @ Ása] \* Ák[{ Ásg & [{ ^ Ak}[{ Ás@ Ábţ à Á]; [çãa ^ å Át[; Á c@ Ás][č\* • ^ Át]; Á@ æb Áţ : [çãa ^ å Át] [çãa ^ å Át]; [çãa ^ å Át]; [çãa ^ å Át]; [çãa ^ å Át]; [ c@ Ás][č\* • ^ Át]; Á@ æb Áţ : [çãa ^ å Át]; [áč & c• Ásg & aā ^ & co@ Át] [č - ^ At] [ Å Asg & At] = [co@ Át] [č - ^ At] [ Å Asg & At] = [co@ Át] [č - ^ At] [ Å Asg & At] = [co@ At

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## <u>Hfuzzjw</u>'

Ö`¦āj \* Ác@ ÁÔ[}•d`&cāt]}ÁÚ@ee ^ Átæ-æ&Átē Á^¢] ^ &c^ å Át[ Ábj &¦ ^æ ^ Át[ Áæ4&^¦cæanj Áå^\* ¦^^ Átē ` Át[ Ác@ Á } æč ¦^Át \_ Ásæ&cāçātāð • Ás@æe Á ātļ Ázeð ^ Át | æ&^ Á ` & @ Áse Ás@ Ás!æ) • ] [ ¦ cát \_ Á ` čat { ^} ó Ásej å Á ~ [ { Ác@ Ár ãc^ Ác@[ ` \* @ Ác@ Ár ` ¦ [ ` } å āj \* Á[ æå Áj ^ ç [ ¦ \ ÉOEa å ãtāt]} æt Át ææ Åt æå Å ātļ Át çãa ^ A ó &^ ¦ cæanj Ácāt ^ • Ás` ¦ āj \* Ác@ Ás æ Ét • ] ^ & ãat f ` Æ Ás@ \^ Ás Ás@ \^ Át [ ` , Át [ çāj \* Á@ æç ^ Áç ^ @ & At æ} • ] [ ¦ cāj \* Á { æc^ ¦ ãæt Átāt ^ • Ás] à Á/[ { Ác@ Ás æ Ét • ] ^ & ãat f ` Æ Ás@ \^ Át @ At æ ^ Át [ , Át [ çāj \* Á@ æç ^ Áç ^ @ & At æ} • ] [ ¦ cāj \* Á { æc^ \ ãæt Átāt Ásej å Á/[ { Ás@ Ás æ Ét • ]

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Á ÔÙ QHÊZĘ & ÁÜ^] [ ¦ Á Á

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### <u>DchYbh]Uʿ=ad`]WUh]cbgˈcbˈ@cWUʻ7 caaib]hm;fcidg</u>

٧@ Á[ c^} هَظِطْ{ الْعَبْقِ ] ﷺ المَعْظَى \* Af ÁFC's PS5 with regards to Land Acquisition and Involuntary \^•^och\_{ ^} مُنْهَظِهُمْ مُحْهَمْ مُحْهَمْ مُحْهَمْ الْمُعْمَمُ الْمُعْمَمُ الْمُعْمَمُ الْمُعْمَمُ الْمُعْمَم \^\* حَمْهُ الْمُؤْ الْمُعْهَمُ إِلَى اللَّهُ عَلَى الْمُعْمَدِي الْمُعَامِ الْمُعَامِ الْمُعَامِ الْمُعَامِ الْ

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Þ[Áåāl^&cÁ&[{ { `}}āĉÁ¦^•ãa^}œE[[&æ‡+Ep;]^¦æà|^Á\*¦[`]•Áæd^Á^¢]^&c^åÁq[Áà^Á•ã]}ãaBæa)q^Á æ-^&c^åÁa^Á,Á¦[b%ocÁæScãçãa®•Ě4/@Á,`ãræa)&^•Áx@æcÁc@c^Á(æâÁa^Á\*¢][•^åÁq[Á;}Á@[¦dĒc^¦{ÁaærãrÁ å`¦āj\*Á&[}•d`&cāţ}Áæd^Ádæ-aBA&[}\*^•cāţ}ÁæcÁ&^¦œænjÁcāţ^•ÊA}[ãrÁæa)åÁå`•oÁæa)åÁ\*^}^¦ædÁ åãrč¦àæa)&^ĚA

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Ô[{ { [} Áæskaāçānā\*•Áå\*¦ā]\*Á&[}•d\*&aāt}À\*\*&@ÁæeÁ^¢&æçæaāt}•ÉA|ācāj\*ÉA{ [ç^{ ^} óA[~Á@æç^Á { æsk@3]^¦^ÉA@eo}å|ā]\*Á&@ { a8æo‡EA^o&EA&eo}Á3]d[å\*&^Á[&&\*]æaāt}ædÁ@ædo@ÁBÁ•æ^ćÅ!ā`\•Ád{Á [ |\^¦•Áee Át, ^}cāt}^åÁ}å^¦Á@ædo@Áse}åÁæ^ćÁst]]æskorÁseat[ç^ÈAJo@;¦Áā\*\•Áse+[Áse=+[&ãæe\*\åÁ ] āno@A&@aåÁæaat[¦Áse}åÁt{¦&^åÁæaat[¦ÉAÁ Á

Ω £\* ¦ā\*çæ) &^Á{ ^&@e) ã { Áå` ¦ā] \* Áo@ Á[ ] ^ ¦æeā[ } Á] @ee ^Á+ @ed|Áed+• [ Áà^Áå^ç^|[ ] ^ å Áeo) å Áj āļA´ } å^\!Á o@ Á^•] [ } • ãa ājāč Áį حُمْتِ هُجْ إِنَّا الْهُ كَمَاتُهُ مَنْ الْمُعَامُ مُنْ الْمُعَامُ مُنْ الْمُعَامُ مُ

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### **Operation Phase**

## <u>9a d`cma YbhCddcfhi b]hjYg</u>`

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#### <u>9 Wcbca mUbX GcW[Yhm</u>]

Solar projects in Jordan are expected to improve Jordan's economy as more investors are acclassed a Aq for the second se

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#### <u>Dfc\*YWhGiddcfhhc`>cfXUb]Ub`; cjYfbaYbh]b`<cgh]b[`FYZi[YYg`</u>

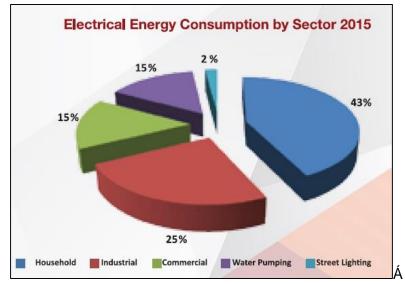
CB&&[¦åā]\* Át[Á@ Ápæer∿•oÁ)æaā[}æ4Á&A}•ੱ + ÊÁ@ Át[cæ4Á,[]`|æaā[}Át, ÁR[¦åæa)Æir Áv•cā[æerAåÁed[`}åÁlĚ Á {ā|ļā]}ÊÁBj&{|`åā]\* ÁÎĒİÁ,ā|ļā]}ÁR[¦åæa)ãæa)•ÈÁU-Áx@ Át[cæ4Á,[}ËR[¦åæa)ãæa)Á,[]`|æaā[}LÁFÈCIÎÁ,ā|ļā]}Á æ4^ÁÙ^¦ãæa)•Áçc@ārÁ}`{à^\¦Á\_æerÁ`cā‡ā ^åÁv•ā]&^AãrÁārÁārÁ{[}ÅAR[¦åæa)ãæAj åÁ\^-{A&Cā}\*Ác@ Áæ&c`æ4Á •ãč`æaā[}DÉÁ&[}•cãč`cā]\*ÁIÎÁÃ,Át,-Á;[}ËR[¦åæa)ãæa)•Áñaçā]\*ÁBjÁx@ÁSā]\*å[{ Áxa-jáA/APCAÄ,Át,-Áx@ Atç-A;æ4Á ][]`|æaā1]}ÁQÚ[]`|æaā1]ÅBÁP[`•ā]\*ÁÔ^}•č•ÊAC€FÍDĚÁ

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<sup>GS</sup>ÁTājārd^Á;ÁÚ|æ)}āj\*ÁeojåÁQro^\}æaāj}æ¢ÅÔ[[]^\!æaāj}ĚÁQr]æ&o/áAF[•cāj\*ÁÛ^¦ãeojÁŰ^~`\*^^•ÉAU&qià^\ÁOEFHÉACE;{æ)ĚÁ

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:][ifY`\*,.`9`YWYf]WU`9bYf[mi7cbgiadh]cb`VmiGYWVcf`&\$%)`

Ô[}•āå^¦āj\*ÁFÈĐÎÎÁ(āļļāj}Á[-Á!^~\*^^•Á+[{ÂÙ^¦ãæ Áœ Á[-ÁRæ)`æ\*ÂGEFÏĒźc@Á[aæ Á!^•ãa^}āæ Á ^|^&dāsāčÁ^``ā^åÅjāļÁs^ÁFÊEFIÁÕY@ŽãÁc@Á]^¦Ásæjãæ A\*|^&dāsāčÁs[}•`{]dāj}Æi Ái Ái Áæ æ Á@ Áşæj`^Ásæ Aši Jæså Åæi[ç^Ěko Éi æså Á] (Å 60 Á) æ Á@ Áşæj`^Ásæ Aši Jæså Åæi[ç^Ěko Éi æså Á] (Å 60 Á) æç^¦æ \*^Á[¦ÁGEÁ ^æ • Áçã • d´ ^æ Á§JÁÎ €ÁÕY@Áæ)å ŧJÁ ^æ ÁGEÁñ Ai Ac Å Ac Å Ac Å Qa^& č • ^Ác@ÁUXÁ[[å`|^Ás^\*¦æå^•Á§JÁ©Áæ)\*^Á]Á[ÆETĂÁ]^¦Á ^æ DĚÁ

V@\¦^-{¦^Êks@ãrÁξi] æ&oŹas Á&[}•ãa^\'^åÁξi Áà^ÁDcg]h]jY`fŽĽ"

#### Decommissioning

#### <u>9a d`cma YbhCddcfhi b]hjYg</u>`

Ù@;¦dĔ^;\{Áb;àÁ[]][¦č}ãoã)•Á{ æ`Áà^Áæ+ãª^Áåč ¦ãj\*Áå^&[{ { ã •ã;}}ãj\*ÉÅ@; ^ç^;ÉÅœ3e`Á&æ)Á }^\*æaãç^|^Áã; ]æ&ofj^;{ æ}^}ofj^;[}}^|ÁseeA@;ÁÚXÁj[; ^;Áj|æ);of4;ã;&^ÁœAæ&a‡ãc`Á;ã|Á&^æ^Áãe·Á []^¦æeã;}•ɉ@;^-{;^Áj^;{ æ}^}ofjœ=A; æ`Á[•^Ás@:ãAb;à•ÈÁÁ

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<sup>&</sup>lt;sup>GH</sup>ÁT ājārd^Á[-ÁÚ|aaj}āj\*ÁaajåÁQic^\}aaaāj}aaµÁÔ[[]^\¦aaaāj}ÁaajåÁc@/ÁWjãz^åÁÞaaaāj}•ÉAP[•óAÔ[{{`}ãcÂÙ`]][¦oÁÚ|aaa-[¦{ÁËAÞ^^å•Á CO≣•^••{^}oÆV^çār, Áj-Ác@ÁQi]aa&oÁj-Ác@ÁÛ^¦ãaājÁÔ¦ããāÁj}ÁA[¦åaajÉAP[ç^{à^\ÁG€FHÈ

]^¦{ æ}^}oÁ]^¦•[}}^|ÁãÁc@^ÁæstájãĉÁ`}å^¦,^}oÁå^&[{ { ã••ã[}ã;\*ÉXã^|åã;\*Áæá`ck`flŁÁã[]æstoÁ •ã\*}ã38æ}s^ĚA

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Ú¦[]^¦Á{æ})æ\*^{^}oÁæ&cāt})•Á, ão@Áæå^˘˘æ¢Á{ãa∄æaāt})•Á&æ)Á¦^åĭ&^Á•ã}}ãa&æa)d^Á•ĭ&@Á æ)a&da ævåÁat]æ&o ÉÁ

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#### **Construction & Decommissioning Phases**

Óæ^åÁ[}Ác@Áæ&@æ^[|[\*&Bæ‡Á•`¦ç^^Á]^¦-{¦{ ^åÁà^Ác@ AÖ^]ætd{ ^}cá[\*ÁCE;cã`ãzã•ÁÇÖ[CEDÁ ]¦[çãā^åÁð;Á5 DD9 B8 =L:8 LÁãoÁ; æ Áãã^}cãa?åÁc@æeÁç; [Á\*ãc^•Áæ‡|Á;ãc@3;Ác@^Á]¦[b^&cÁæ4^æÁ ā]ĭ•dæc^åÁð;Ás@Ásæ^|ð;^Ár^&ca[;}ÈÁ

$$\begin{split} \dot{U}_{a} & \dot{A}_{a} 

QÁ#ā Á&[}&|`å^åÁc@eecÁc@:!^Á#ā Á}[Áee}ca&a]æer°åÁ#[]æ&cóÁ+[{Á&[}•d`&ca‡}Á‡!/Áå^&[{{ã•a‡}}ā]\*Áţ}Á c@•^Á^&^]q[+LÁs@:!^-{{\^Êx@`A#[]æ&cóÁee•^••{^}of;![&^••Á[¦Ás@árÁ^&^]q[¦Á@eerÁa\*|å^åÁæA/[,Á •å\*}ã&æa)&^ĚÁ

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Q ] |^{ ^} cæcāt } Át -Át } Ë\* [ā) \* Á\* } çāt [ } { ^} cæchÁt [ } ãt ¦ā) \* Át ¦[ \* ¦æt •Át āt Å\* } æbe |^ Áto@ Áeæ••^••{ ^} oÁ æ) å Át [ å ãa38æcāt } É456Á^~ č āt^à É4t -Áto@ Áto} çãt [ } { ^} cæchÁt æ) æ\* ^{ ^} oÁt ![ \* ¦æt É4A

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V@Á^^Á,àb%aãç^•Á,-Ás@ÁÒÙTÚÁæb^Á\*`{{ætã^åÁa^|[, KÁ

- •Á Tājāį ãāj\*Áæ)^Áæåç^¦•^Á?;çã[}{ ^}œ¢É\*[&ãæ¢Áæ)åÁ@>æ¢c@Áāj]æ&orÁ^•č|cãj\*Á;[{Ác@>Á ]¦[b%&oÁæ&cãçããð\*•LÁ
- •Á Q ] |^{ ^} cæaāj } Aj ~Aj } Ë [ āj \* Á^} çã [ } { ^} cæaABÂÛ[ &ãæaAj [ ] ãu [ ] ãu [ ] ãu [ ] a \* Aj | [ \* | æe LÁ
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  ]^|-{ { a} &^´A å å & æa [ ĚÁ
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- •Á Ò}•`¦^Ás@eerÁed|Á/cæà^@{|å^¦Á&[}&^¦}•Áed^Áseåå¦^••^åÈÁ

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OE‡coQ; \* @Ác@ ÁÒÙODEÁ; ¦[&^••Áåãa Á;[cÁ^ç^æ‡Áæ)^Á@ã @Átā]}ãa38æ);cÁā[]æ&orÁQēã @•oA;æ Á[`}åÁt[Á à^Á; ^åã {DÉÁc@ãrÁt^&cā;}Á;¦[çãa^•Á; ^æ č¦^•Ác@æcÁč¦c@;¦Á^åč&^ÁcQ;•^Áā[]æ&orÁ&[}•ãa^¦^åÁt[Á à^Á; ^åã { ÁœrÁ; ^||ÁærÁcQ;•^Á&[}•ãa^¦^åÁt[Áà^Á[,ÈÁ

Á Á ÔÙ QËËZËJ æÅÜ^][¦ơÁ

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D\mg]WU`91	oj]fcba Ybhï						
OBāAÛ≚a¢aîĉA4	Ö`∙oÁ *^}^¦æaaā[}Á å`^Á ([Á &[}•d`&cā[}Á æ&cāņāaā∿•ÁÁ		[-Aå`∙cA^{ãr•ã[}•A å`¦āj*Á^æsdo@[[¦\•Á æsdağãaā?•A æsdağãaā?•A			&[}∙d`&cą[}Á ∙ãe∿ÈĂ	
	Ò¢@eĕ•oÁ ^{ã•ąĩ}•Ásĩ^ÁţÁ []^¦æaãį}Áį́-Á &[}•dĭ&aãį}Áj aa)oÁ aa)åAįa&&@g^¦^Á	•Á Ò}•`¦^Áæå^``æc^Á{ æãjc^}æ)&^ÁæjåÁãj•]^&œãį}Á¼ Á ç^@284/^•Áξ[Á[∄ã]ã ^A^k¢@eĕ•oA^{ ã•ā]}•ÈÁ •Á Þ[oÁ`}}ð]*Á*}*ð]^•Áξ[¦Á[]*^¦Ás@eðjÁārÁj^&^••æî^ÈÁ	[-Á ^¢@eĕ•o4		Þ₩A	Ü^*ັ ælÁ ç^@384^Á {æ35;c^}æ35&^Á ¦^&[¦å•Á	ÒÚÔÁ Ô[}dæ&d[¦Á
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Ù[ ặÁ	Ù[ā¦Á &{}cæ{ā}æaā[}/Á	<ul> <li>Á OZÁ•] āļIÁ] !^ç^} cāĮ } Áæỳ åÁ!^•] [ } •^Á]  æỳ Á• @æţIÁà^Á</li> <li>[ ] *] æhå há Ac@ A&amp;[ } dæỳ âÁ!^•] [ } •^Á]  æỳ Á• @æţIÁà^Á</li> <li>[ ] *] æhå há Ac@ A&amp;[ } dæ&amp;q !Áţ !Åţ !å^!At[ Á&amp;[ }&amp;[ ] dæ] ^ Á</li> <li>ā æhç^!c^} oÁ/æà æt^Á[ !Á] ājæt^EÁ</li> <li>Á Ù] ājIÁ*-] [ } • A ( A &amp; * * * • A @æţIÁa A ( ] ] * ( ^ } e a Age A ) ^ A</li> <li>( A ) [ ] * ( ^ 2 e a Age A ) ^ A ( ] a a a a a a a a a a a a a a a a a a</li></ul>	[-A •d[ ¦æ* ^A æk^ææ æ)åÁ { æ&@j ^\^Á c@[`*@&&[ }å &cā)*Á ¦^*`  æk Á æš åão Á [-Á [ }Ë ãa^Á æ&cã;ãã • Á æ)åÁ ∄ &ãa^ ô i^] [ ¦cā)*Á[ ¦{ •ÈĂ Á OĘIÁ•ãa^Á [ ¦\^¦•Ád Å OĘIÁ•ãa^Á [ ¦\^¦•Ád j {[ &^å` Å		O∰Á `}] a}}^åÁ ∄&ãâ^}oĐ æ&&ãâ^}oA a}ảÁ Ô[¦¦^&cã;^Á æ&cã;}•EĂ	āj&ääå^}o•Áō[Á  à^Á¦^&[¦å^åÁ  åĭ¦āj*Á [}Ë	Ô[}dæ&q[¦Á

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Á	Ù[ąľA‰áã¦čàæ)-&∿ÁÁ	Á \ [Á&] + [ Ák]   [Ák] [ Ák] [ آبة • ] + Ák] [ Ák] ] b { ] b { ] Ak] ] b { ] Ak} A A ] A ] A & A & A & A & A & A & A & A &			Ô[¦¦^&cãç^Á æ&cãį}∙Á ¦^][¦cãj*Á	Ü^*ઁ æÁ ậ∙]^&cậ}}Á ¦^][¦œÁ	ÒÚÔÁ Ô[}dæ&q[¦Á
Xãar≚aq-Á OĘ[^}ãĉÁ	Xãr`æ¢Á ã[]æ∨Á ⊣[{Á&[}•d`&cā]}Á æ&cã;ãã?•Á•`&@Áæe {æer\iãeoprá  æêÁ å[,}ÊÅ ^¢&æçææā]}ÊÅ àæ&\-ājjā]*`	æ)åA"[[[åÁ@[v <sup>™</sup> •^\^^]ä]*´Aj,¦æ&ca&∧ÁeexÁsooo'Aj¦[bó&óAíãe^Á æexÁep Áaãį ^•ÈÁ	*^}^\a∯Á @Q`•^\^^]āJ*Áaa)åÁ & ^aa) āJ^••AaaaA•ãa∿Á 1āJÁaaååãaãJ}A{{Áæ•c^Á {a},aa}aãaãJ}A{{A}; Aæ•c^Á {a},aa};2*^{^}oÅ [}Á		Q•]^&cāj}Á ¦^][¦œÁ	Õ[[åÁ @[`•^\^^]Ë a]*Á]¦æ&ca& (• Á æ)åÁcaāa]^••A [-Á [!\Á æ^æÁ,ão@a,Á c@Á]¦[b^&oÁ •ãc^ÈÁ	
Á Yæse^Á Õ^}^!æaaj }Á Á	Pææå•Á ]¦^•^}¢^åÁ à^Á 4 ]  []^\f { að æ*^{ ^}o Aad a^A @ad at at at at at at at at at at at at at	@eeælå[`•Á ¦&as&;\&as&;\A & [3•d`&a&] Å { æck;\äade A & A & A & A & A & A & A & A & A & A &	À • • • • • • • • • • • • • • • • • • •		Ô[}dæ&d[¦Á •@æ A ]¦^]æ}^Á æ}åÁ •`à{ãoÁ { [}c@?Á ,æc^Á ¦^][¦cÁ d[Á Óæ{}[`}æ ÈĂ	ूão@Á ुæec∿Á {æ}æ≛^{{^}} oÁ ] ¦[&∿åč¦^∙ÈĂ Á	Ô[}dæ&d[¦Á

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Y [ ¦\^¦Á	Šænà[¦Á æ)åÁ	<ul> <li>V@ÁÔ[}dæ&amp;q[¦Ár@e# Ázeà^Áe# Á^æe[}æà ^Árc^]•Áq[</li> </ul>		Ü^* ˘  æ ^ Á	V[ Á	<pre>^&amp;@eay &amp; { Á aay å Â U Ô Ú È Å b ` { à^\ A [ - A *   a ` ç aay &amp; ^ A aay å A ca { A caay ^ } A q A caay ^ } A q A caay ^ A caaay ^ A caay ^ A caaay ^ A caay ^ A caaay ^</pre>	
Ô[{{`}ãc ^Á	Y[¦\aj,*Á Ô[}åããą[}∙Á	<ul> <li>^} •` !^Ác@ætÁqiļÁ; ætāj } atÁļ^* ā jætāj } Áj } Ájæi[` !Áæj å</li> <li>@atpc@Á æj åÁ • æ^c ÉÁ c@ Á !^``ā^{ ^} o Á [ -Á 02Ô</li> <li>Ú^!-{ !{ æj &amp;^ÁUæj åætå ÁGÁÇŠæti[` !Áæj å ÁY [ !\āj *</li> <li>Ô[ } å ātāj }• DÉÁ c@ Á Y [ ! åÁ Óæj \ Á Õ^} ^!ætÁ ÒPÙ</li> <li>Õ šā^lā ^• ÉÁ^!^çæj cÂUæt åætå ÁGÁÇŠæti[` !Áæj å ÁY [ !\āj *</li> <li>Ô[ } å ātāj }• DÉÁ c@ Á Y [ ! åÁ Óæj \ Á Õ^} ^!ætÁ ÒPÙ</li> <li>Õ šā^lā ^• ÉÁ^!^çæj cÂUæt åætå Áæj å ÁÚ![ &amp;^å` !^• Áæ å^ç^][ ]^ å Áæt å á á j å / á c@ ! Á^!çæt c@ ! Á ?! o tâ á a á ó tãa ^ á á á á á á á a a fá c@ ! Á ?! o tâ á a á á á á á á á á á á á á á á á á á</li></ul>	<ul> <li>• c°{ • Á æh Á ā Å</li> <li>• aæh Á á Á á Á</li> <li>• aæh Á á Á í [ ] ãu</li> <li>• A á Á í [ ] ãu</li> <li>• A á á í aæh Á í ão</li> <li>• aæh á Á @ æh ô Ø</li> <li>• aæh á Á @ æh ô Ø</li> <li>• aæh á Á @ æh ô Ø</li> <li>• aæh á A • æh c Á</li> <li>• cæh á æh è Ø</li> <li>• cæh à æh è Ø</li> <li>• cæh à æh è Ø</li> <li>• cæh à æh è Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah à A @ æh ô Ø</li> <li>• ah A </li> </ul>	c@[`*@Á ]¦[b∿&oÁ ]@æ•^•Á	Óæŝ}[ĭ}æÁ { æ}æ≛^{ ^}ơÁ		Ô[}dæ&d[¦Á åĭ¦ā]*Á Ô[}•dĭ&dā] }Á æðjåÁ Óæî}[ĭ}æÁ åĭ¦āJ*Á []^¦ææā]}ÈÁ

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		<pre>requirements and Baynouna's HR policy and ] [[ &amp;^å'  ^• Ĕ\$\$ A V@ AD[ } dæ&amp;q   A @et A } • ` !^ As@et#A æ^As} å A@ et#Q@ A , [ !\ ] * A } çā[ } { ^ } o\$ A ; [ [ çã^å Å [ ] A ] ; A ] • ãr A æ) å A cœtA * [ [ å A ] c^! } æti ] æti ] ; A Å ] ; A • ãr A æ) å A cœtA * [ [ å A ] c'! } æti ] æti ] ; A Å Å Å Å , ãc@, [ ] &amp; a * A ; c^n [ ] ^ å Å ` A æ A ć Å ä Å [ ] [ _ ^ å Å Å A , ãc@, [ ] &amp; a * A ; c^n [ ] ^ å Å ` A &amp; A &amp; A } ] &amp; a &amp; A , ãc@, [ ] &amp; a * A &amp; c^n A &amp; A &amp; A &amp; A &amp; A &amp; A , ãc@, [ ] &amp; a &amp; A &amp; coetA &amp; a &amp; A &amp; A &amp; A &amp; A &amp; A &amp; A &amp; A &amp; A &amp;</pre>	āj•]^&cāţ}•Á (ţÁ { [}ãāţ!Á &[{] ãæ}}&^E2₩Á				

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OEE&@ee^[  [ *^Â BĂ Ô` č'¦æੈÅ Ü^•[`¦&^ •Â	&[}&^¦}Á&æ)Áà^Á ã[]æ&c•Á [}Á	Óæråá, } &@ ADE& &@ # [] * & & & & & & & & & & & & & & & & & &	<ul> <li>ãc^Á ậ,•]^&amp;cậi }Á</li> <li>ãi { ^åãæc^ ^Á</li> <li>ãi { ^åãæc^ ^Á</li> <li>æc^! Á &amp;@æ) &amp;^Á</li> <li>-āj åÉÁ</li> <li>•Á Q-[:{ āj * Á</li> <li>]^!•[}}^ Á</li> <li>]!^.*^} oÁ[ } Á•ãc^Á</li> <li>].*^* oA[ } Á•ãc^Á</li> <li>].* oA oA[ } Á•ãc^Á</li> <li>].* oA oA[ } A•ãc^A</li> <li>].* oA oA oA oA oA</li> <li>].* oA oA oA oA</li> <li>].* oA oA oA oA oA</li> <li>].* oA oA oA oA oA</li> <li>].* oA oA oA oA oA</li> <li>].* oA oA oA oA oA oA</li> <li>].* oA oA oA oA oA oA</li> <li>].* oA oA oA oA oA oA oA</li> <li>].* oA oA oA oA oA oA oA oA oA oA oA oA oA</li></ul>	ā]•]^&cā[}Á æe^¦Á &@ea)&^Á -ā)åÁ			ÒÚÔÁ Ô[}dæ&d[¦ÁÁ

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ù[ ạÁ	Ú[c^}cãa‡Á •]ā æ*^Á[-Á •d:¦^åÁ [āļÁ æ}åÁ &@{ 88懕Á		] ¦^•^} &^Á[-Áæ)^Â åãrč ¦à^å æ¦^æ ∄,Áæ) å,Áæ¦[`} å,ÁœA ] ¦[b%&A •ãc^Á -{ ¦Â	¥ ^^\  ^ Á	V[Á developer's ﴿ a) æ* ^{ ^} oÁ	Tæ3jæ3jÁ ¦^æ4jå Á æçæ3jæ3jÅ ¦^&[¦å•Á]-Á [¦\^¦•Á dæ3jaj*Á [}Á ]][&^å`¦^•ÈX	]¦^ąį̃åÁu∕æ);åÁ UBTÁ
Xãar`aa‡Á OĘ[^}ãĉÁ	Ú[c^}cãaa∳Á * æ4^Á ⊣[{Á ÚXA∱aa}^ ∙`	V@:Á`•^åÁc∿&@;[ [*^Á@æeÁOE;caËÄÜ^-∤^&caặ^Á &[ææa]*Á co@æcÁ •ãt}ãaBæa)q^Á ¦^å`&^Á co@Á ¦^-^ ^&caặ,aĉÁ[-Áco@:ÁÚXÁÚæa)^ •ÁæeÁ^ æaà[¦æe∿åÁ `}å^¦Á^&caậ}}ÁÚE3ÈÈÈĚÉÁÁXãi`æ4ÁQE;^}ãcÂá`¦ā]*Á U]^¦ææaậ}AÚ@æe^ÈÁ	ÞÐÐÁ	ÞÐDÁ	ÞÐÐÁ	Þ₽DEÁ	ÔÚÔÁ Ô[}dæ&q[¦Á å`¦ā)*Á æ}æ}c Á ]!^ā[åÁkæ)åÁ UBTÁ Ô[}dæ&q[¦Á å`¦ā]*Á U]^¦ææā[}Á Ú@æ•^Á
Yæ•c∿Á Tæ)æ*^{^}oÁ	Ú[ơ~}cãa‡Á åãa*¦&@ee**^Á ⊣{{Á YYVÚĐĂ	<ul> <li>Ú¦[b^&amp;cÁå^ç^ []^¦Á, āļ Á&amp;[}•d`&amp;cÁæÁ•{ a‡ </li> <li>•&amp;a‡^Á, æ•c', æɛ'¦Á¦^æɛ{ ^} cÁ æ) cÁY Y VÚD</li> <li>d[Ád^æɛÁå[{ ^•câ&amp;Á, æ•c', æɛ'¦Áæ) åÁ ã čãå</li> <li>^~,``&gt;cÁ*^}^\æɛ^àÁ ~;[{ Á•ãc'Á æ&amp;cãçããã•Ê</li> <li>d[ā/o•Á æ) åÁ •æ) ãææāį}Á ~æ&amp;ãããã*•Á åč;;ā;*</li> </ul>	`æ•cv`æv¦		V[Á developer's ﴿]Á {æ}æ*^{^}oÁ	Ô[{] ā];aa);&^Á ,ã@Á¦^ ^çaa);d⁄ R[¦åaa);ãaa);Á Ùcaa);åaa3åa•Á ÇRÙÁ ÌJHKCEEÊDÁ	<b>A</b>

### HUV`Y`' , .`9bj ]fcba YbHJ`UbX`GcWJU`A UbU[ Ya YbhD`Ub`Xi f]b[ `CdYfUf]cb`D\ UgY`

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Ùæ^ć Áã∖∙Á	Ú[ c^} cămp4[ 4 ^c] [•`¦^Át[ Á •æ^c Á ^ç^} • Á å`¦ā] * Á []^!æaā] } Á æ8cā; ādā• Á •`&@A æ Á • ā]]ā] * Á æ9 å Á dā]]ā] * ÉÁ , [!\ā] * Á æa4 @ ā @A æ8cā; ādā• ÉÁ æ9 å Áā^:	<ul> <li>Ùæ^ć Á, [   383 • Á [ Áa^Á8 [ { ]   á há, ã @ á há i a</li> <li>[] ^   aeai } È</li> <li>Ú   [çãa ^ Á , a h, æ • Á cœac Á æ ^ Á 8   ^ æ   ^ a^• ã } æ háæ Áæ Áæ Á a h, æ Láæ   Á a h, æ •</li> <li>• @ e há há · á a fá æ háæ Á a h, æ Láæ   Á a a h, æ •</li> <li>• @ e há há · á ] [ çãa ^ å A, ã @ A * [ [ å A 8 ] } a ã a i ] •</li> <li>* } å ^ ! - [ d A * ã ] [ • c há a a há a í a @ há * č a a hí a a hí a hí a a hí a a hí a a hí a hí a a hí a a hí a a hí a hí a a hí a a hí a a hí a a hí a a hí a a hí a hí a a hí a a hí a a hí a hí a a hí a a hí a a hí a hí a a hí a hí a a hí a a hí a hí a a hí a a hí a hí a a hí a hí a a hí a hí a a hí a hí a hí a a hí a hí a hí a</li></ul>	Q.•] ^ & Cai } Á - Á ^~ a { ( ) • A cai } Á - Á ^ a { ( ) • A • ^ a / a · ^ a / a · ^ a / a / a / a / a / a / a / a / a / a	Ô[}cājǐ[ǐ• ^Á T[}c@p^Á	<pre>4 Á developer's 4 ] Á { æ}æ*^{ ^} ø </pre>	V[ cæþÁ Ü^&[ ¦åææ]/Á Q.&æa^}&vÁ Úææ^ÁÇVÜÖDDÁ Š[•cÁ Vā] ^Á Q.&æa^}&vÁ Q!^``^}&^A P`{ à^!Á [-Á •æ^c Á dæ9]3*Á ]^!-[:{ ^åÁ P`{ à^!Á [-Á }][}EA &[ }-[:{ æ9,&^A ^ç^}oE	Ô[}dæ&d[¦Á åĭ¦ð]*Á U]^¦æað[}Á

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		●Á Œå^˘˘æ&^Á-ã=• c⁄aæãa^¦= Á= @ede Áà^Á[} Á= ãe^Áã; Á					
		æ&&{[¦åæ)}&^Á, ãc@ÁR[¦åæ);ãæ);ÁŠæà[`¦ÁŠæ;Á					
		¦^˘˘ã^{^}œĔĂ					
		●Á Øãi●oÁæããÁ∖ãoÁ,ão@Áæå@●ãç^Áàæ)åæ*^●ÊÁ					
		æ)cãaã[cã&Á [ð]q(^}cÉÁ æ)cã^^]cã&Á ,ð]^•ÉÁ					
		æ•]ãiājÊÁ }[}˦ææ∿¢Á *∥[ç^•ÊÁ •&ã•[¦•ÊÁ					
		c@e¦{[{^c^\ÊÂ\c&ÈĂ\@ee /Ásì^Á(æå^Áæçæajaæà ^Á					
		à^Áo@Á&[}dæ&q[¦Á[}Áãc^ÈÁ					
		•Á Ò{^¦*^}&î Á^çæ&šiæāį}Á^•][}•^Á•@ee Áà^Á					
		] ¦^] æ!^åÁà^Ác@^Á&[ } d`æ&q[ ¦Áæ} åÁ¦^ ^çæ} oÁ					
		•œæ-Á•@æ¢ Áà^Ádæậj^åÁc@[**@Á{[&\Ë]Á					
		å¦ą́ •È					
cWjc!YWcbca	a 1Wgi			I	I	1	

Á Á ÔÙ QË Đặ a ÁÜ^][¦ơÁ

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5 gd YWhi ?Ymi :fYeiYbWmi FYdcfhjb[ A]h][Uh]cb`AYUgifYg` Acb]hcf]b[ ' DYfZcfaUbWY FYgdcbg]V]`]mi DchYbhU' =bX]WUhcf F Yei ]f Ya Ybhg' =adUWhi O≣|Á∄j&ããa^}o•ÁÞ`{à^¦Á [~Á ÁÒÚÔÁ V¦æ-ã&Á Ú[ơ^}cãæ¢Á Öæãi^ Á Á æ&&^••Á ¦[æå•Á {ãjã[æ‡Á ^¢ãrÁ§j dí Ác@ Áæstajãĉ ÈÁÁ ¦^][¦c^åÁ q[Á<mark>]</mark>&[{]|æa∄jo=Á Ô[}dæ&d[¦Á ã}&¦^æ•^Á[≁Á Á æl[ĭ}åÁáãc^Á c@∘Á ]¦[]^¦Á ¦[{ Á ¦[æåÁ åĭ¦ā]\*Á æčc@;¦ãc Áæ);åÁ č∙^¦•ÈÁ ,æłæ),ćÁ dæ⊶a&Á{[æåÁ Á Ü^&[¦åÁ đÁ ]¦^ā[åÁuÁæ))åÁ Á &[{]|ænijorÁ Baynouna's Þ`{ à^¦Á [~Á UBTÁ ¦^&^ãç^åÁ ~¦[{Á Tæ)æ≛^{^}dæ⊶a&Á Ô[}d:æ&d[¦Á āj&ãåå^}o•Áåĭ^Á åĭ¦āj\*Á |[&æ∳•Á [¦Á æčc@g¦ãaã∿∙ÈÁ [dÁ ç^@a&k|^Á U]^¦æea[i}Á Ú@æ^Á {[ç^{ ^}dĂÁ Á

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Cumulative impacts have been defined as "changes to the environment that are caused by an æcā } Áð Á&[ { àð æð } Å ã@ ( c@ ¦ Á) æ dÊ | !^•^} o A a a future human actions" (Hegmann et al FJJJ DÉ A

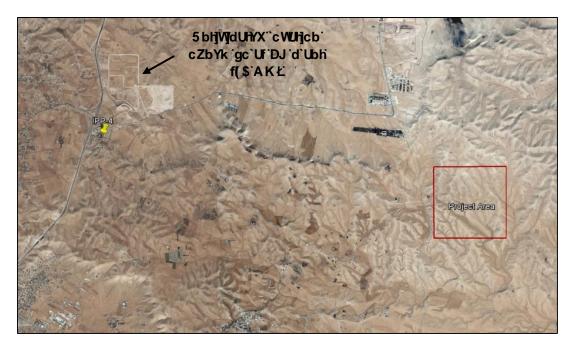
 $V @ |^ A (2000 + A (200$ 

Solar PV power plants in particular are focused on Ma'an  $Qee \dot{A}_{1} = \dot{A} = \dot{A}_{1} = \dot{A} = \dot{A}_{1} = \dot{A} = \dot{A}_{1} = \dot{A} = \dot{A}_{1} = \dot{A} = \dot{A}_{1} = \dot{A} = \dot{A}_{1} = \dot{A} = \dot{A}_{1} = \dot{A}$ 

The above mentioned projects are located far away from the project area, Ma'an being at ]  $[c\bar{a} = 2\pi c^2 / A = 2\pi c^2 + 2\pi c^2$ 

V@ Áseai[ç^Á; ^}cā;}^åÁæstajāna\*•Áset^Á\*~a38ai}d^ Ásiārcea)&^åÁ¦[{ Ás@ Á;¦[b^&oAset^æ4\*\*\*&@Aset@aiÁ å^ç^|[]{ ^}oÁsiÁ;[oÁsejca38ajæe\*åÁ;[ÁseaååÁç^¦^Á§;•ãi}ã38æa)d^Á;[Ás@ Á;[o\*}caaetAsiā^&oAsi[]æ&orÁ;As@Á Ú¦[b^&dēĂ

 $V @ \acute{A} ¢ \ddot{a} c' & A (i -$ 



#### :][ifY`\*-.`@cWUh]cb`cZbYUhYghd`UbbYX`bYk`gc`Uh`DJ`dfc^YWhihc`h\Y`dfc^YWhUhYU`

 $\begin{array}{l} Q_{A} & ( A_{A} & ( A_{A} & A_$ 

#### HUV`Y'-.'7 cbg]XYfUh]cb`cZ7iai`Uh]jY`=adUWhg`]b`h`Y`WUgY`cZYgHUV`]g\aYbhcZacfY`h`Ub`cbY` bYk`gc`Uf`dfc^YWhg`]b`WcgY`dfcl]a]hmhc`h`Y`Dfc^YWhi

5 gdYWn	7 ca a Ybh
Gc]	Ùãr^Á/∿ç^  ā]*Éئænáā]*Áxa) å Áxa) å Áxa) å Áxa/ æ 4ā]*Ákga4c@[`*@4xx[}•ãa^\'^å Á(ā)ā[æ4xxů`^Áx[Á][[¦Á ç^*^cænáī]}Áā]Ác@∘Áæ4^æ1DÁ&æa)Á[/ænáÁd[Á][c^}cãæ4A4-[ā]Áåārcč¦àæ3)&^Áæ3)åÁ^¦[•ã[}ÈÁ P[¸^ç^¦Éxc@árÁarÁxx[}•ãa^¦^å Áx[Áxà^Á(ā][¦Áxa)åÁr<{][¦æ3^Áxů`¦ā]*Áxx[}•d`&cã[}ÈÁ
5]f`EiU]hmi# 8ighi # HfuzzjW7	
	One Á[¦Ác@∘Á[]^¦ææā[}Á],@eee^Éác@ Á5];&¦^æe∘Á5];Á/^}^,æà ^Ár}^,**^Á]¦[b/∨Á;ā] Á@æç;^Á à^}^~ãorÁ5],Áz^¦{•Á[-Á/^å`&cā[}Á[-Á&æsà[}Á[[d]¦ā],cÁsa);åÁ]¦[{[d];*Á& ^æ);Á?}^¦*^ĚÁ
HYffYghf]U` 9Wc`c[mi	Õãç^}Ác@^Á[[,Áç^*^cæaā]}Á&[ç^¦æ*^Áæ)åÁ[ā]ā[æ&fæ`}æ4Áæš}æ4Áåãç^¦•ãĉ´Ájão@a)Ác@.Áæ4^æ4 æ)åÁão•Á•`¦¦[`}åā]*•Á&[{ àā]^åÁã[]æ&o•Á[}Ác^¦¦^•dãæ4Á^&[ [*^Áæ4^Á&[}=ãå^¦^åÁ { ājā[æ4Áæ)å/ãsÁæ)^Ájā Áà^Áà`¦ā]*Á&[}•d`&cā[}Ěá
6 ]fXg	V @ărÁāţ] æ&oÁ&æa}}[oÁà^Á * æ) cãað*åÁrāj& ^Ác@Á*¢æ&oÁ[&ææāţ}•Áţ-Á][c*}cãæ¢Á*[ ædÁÚXÁ ] æ) o Áæd^Á *}\}[, }LÁQ2, ^ç^¦ÉŽ[* or ãa^Ác@Á*åā^&cAj![b*&oÁæd^æAj}[ÁQ2][¦œa) o Óðā å Á OE^ærÁ*¢ã*oÁæ) å Ác@Áj: [b*&oÁãrÁj[oÁ]&ææt*åÁææÁi}^Aţ-Ác@Á*àā å Áţ ãt ¦ææāt} Á Å Å æê ĚÁKOE Á -{¦Ác@Áj æ}}^åÁ €ÁTYÁj: [b*&oÆãrÁa Áj[oÁa) cã&ājæc*åÁt[Á&[}dãa * c*Át[Áæj^Á át }ã&3&æ) cÁ āt]]æ∨Át} Á*àā å•È‴

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@UbXgWUdY UbX'J]giU' =adUWhï''	V@:Á^¢ā;c?}&^Á[-Á•^ç^¦aa,Á•[ adÁúXÁ-ad&ajāaā?•Á{ aĉÁ&ač •^Á•[{ ^Áçã;`ad,Áā[]ad&du @Q_^^ç^¦ÉAc@atÁā;Á}[cÁ&[}•ãa^¦^åÁq[Áà^Á•ã]}ãa&adycÁ*āç^}Ác@ac¢Adyl[[b^&c/ad*az/ad⁄az, '^ aacāç^ ^Á-{]cÁ_ãc@náajãc^åAçã;`ad,Á^•[`¦&^•É&X`{ ` aacāç^Áaj]ad∨Áxde^Áx¢]^&c^åAq[/ à^Ájā][¦ÉÁ
GcWjc! YWebcajWg"	V@Á•cæaai)ā*@{^}oAţ~Áţ[¦^Át] aebÁ;¦[b>∨Áed^Áea)ca&a]aez^åÁt[Á&[}däa`c^Á][•ãuãç^ ^Át[/  [&aeþÁ^{] [^{ ^}oÁ[]][¦č}}ãuãt•Áaa)åÁ{aeça‡ãã∄*ÁÔÙÜÁ5]ãuãeuaãç^•Á,@¦^Á];[b>∨ å^ç^ []^¦•Áed^Ác]^&c^åkt[Áe[  aeà[¦aez^Áa)kát]] ^{ ^}c3}*Á`&@Áa & [•^Á];[cā‡ãĉÁ,@a&@Á&aa)Áà;13}*Áaeà[`cÁà^}^~ãorÁd‡Ác@Á•`;¦[`}å3]*Á [&aaµ & [•^Á];[cā‡ãĉÁ,
	Q,Ác^\{•Á;Áà^}^ão-Át[Ác@Á&[č}d^Áæ ÁæÁ,@{ ^ÉŦæ*^Á*&æ†^Á*[ æ¦ÁÚXÁ]¦[b^&o-Á;ã ,/ @ ]Áæ&@a∿ç^Ác@Ácæ*^o-Á[-Ác@ÁR[¦åæ)ÁÒ}^\*^ÁÙdæz^*^Áæ)åÁ3;&¦^æ•^Ác@A ]^\&^}cæ*^Á;Á*}^\*^Á*^}^!ææā;}Á;Á^}^,æa) ^Á*[č!&^•ÈÁ
	QA\$#Á^&[{{ ^}å^åÁx@eed4jÁ`&@4ⅇ^•Á,@~¦^Á,`{ ^¦[`•Á;[ ædÁ;¦[b^&o-Áed^Á;¦^•^}]o ajÁ&[[•^Á;¦[¢a;ãĉÁt[Áx@A;¦[b^&o4ãc^Êá

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Ø`c`¦^Áj¦[b^&o•Á(æ`Áà^Áj|æ)}^åÁæe¢¦Ác@Á>ÒÚÔUÁ'¦^^}Á&[¦¦ãá[¦Á;@3&@Á#áÆÁ(`|œË&[{][}^}oÁ ]¦[\*¦æ{{^Ác@exÁæã(•Át[Á^}@ee)&^Ác@Á&æ]æ&ãčÁ[Ác@Á^|^&c13&ãčÁdæ)•{ã•ã[}Áj^c;[¦\Á3jÁc@Á •[`c@Á,ÁT;[¦åæ)Áse)åÁæãa^Ás@Áæa\*^cĚQÁ#Á¢]^&c\*åÁt[Á3j&]čå^ká

- •Á V, [Á,^, Áslæ)•{ã•ã[}Á§]^•ÁÇ; €€Á X⊞7Í€Á{ Áæ) åÁ∓HGÁ XÐÍFÁ{ DÁ
- •Á W]\*¦æåã)\*Ás@^^Á¢ãaã;\*Áã]^•ÁÇFHGÁXBF€€Á{DÁ
- •ÁÔ[}•d`&cāį}Áį.~Áį}^Á,^j AÁ ∈∈BFHGÁ XÊÆFG€€ÁT XOEÁ |^&da&ããĉÁ`à•cæaãj}Á

Q Á&[}&|`•ā[}Áæ) å Áæ Á{[¦Ác@ Áā] ^Áà^ā] \* Ác@ ¦^Áæ!^Á}[Á] |æ)}^åÁ [ Á] |æ)}^åÁ [ |æ}ÁÚXÁ] ![b/&or ÁB Ác@ Á&ā^&cÁ çã&ā] ãc Á[~Ác@ Á] ![b/&cÁÇ¢&^] cDÁ{[¦Ác@ Á]|æ}}^åÁ €ÁT Y Á] ![b/&cÁ[&aæ^åAFGÁ{{ Áe; æ È ĚU c@ ¦Á c@e) Ác@æcÁ&`{ `|æãţ^Áā[]æ&cÁæ•^••{{ ^}}cÁ&e}}[cÁa^Ač ||^Á č æ) cãæ}å ÁæcÁc@á Á cæ\* ^ĚA/@ ¦^-{¦^ÉA c@ Á] ![b/&cÁ] ā|Á[cÁ@æç^Áæ)^Á?] ã&ææ) cÁ~~&c Á] Á č ¦^Áæ&cã;ãæ• ÁB Ác@ ÁæAæÉÁ

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## %\$"( <sup>\*</sup>8 YWca a ]gg]cb]b[ <sup>\*\*</sup>

V@:Áå^•āt}Áļã^Á[:-Áœ?Áæ&ajāĉÁ;āļlÁ&[;ç^¦Áœ?Á]^¦ā[;åÁ[:-Áæ]:]¦[¢ā[:æɛ^\^ÁG€Á^æ]•ÉÆæ)åÁ;ā[lÁà^Á ¦^}\_\_^åÁ][}A[:`迆&[:}4.

V@^Á,[•däå^•ã\*}Áã^Áár¢]^&c^åÁqtÁaşç[lç^Ás@Áqt/ll[,ĝ\*Áç [Át]dat}•kÁ

- •Á Ü^@æàājāāææāj ¿ÉX]\* ¦æåāj\* Áæj åÁ; [å^!}ã ææāj ¿Á; ~Áv@ Áæ&ájāĉ ÉÁ; ãv@ÁæÁ; [••ãa|^Á^¢] æj •āj }Á Ç^d[~āuāj\* Á æj åÁ æåãaāj ¿Á [~Á }^, Á c^&@][|[\*^DÈÁ OE Á æÁ ¦^•` |dÉÁ āj ] æ&o• Á ~¦[{ Á å^&[{ { ã•āj } āj\* Áæb^ Á][ cÁ\¢] ^&c^åA(z Áæbáā^ Ábj Ác@ Á); ^æbÁččč¦^Á`} |^••Á\^d[~ãuāj\* Áæ) åÁ č]\* ¦æå^Á; ~Áv@ Áæ&ájāĉ Á; æ Á;[ cÁ^æ ãa|^LÁ; ¦Á
- •Á Ö^&[ { ã ā] } ā] \* Áā Á&æ ^Áœ \^Á, æ ÁæA, ^^åA[ ¦Áœ Áæ&āāč Át Áà^Aåã { æ} d^åAæ) åÁ àá ã• Á] ^¦æā] } • ĔÁ

 $\label{eq:constraints} $$ V @ A (a) a ($ 

<sup>&</sup>lt;sup>G</sup>Á<u>@adHep,,Èk}&æ¥k][`{àãækÈå`Đ</u>);æ}^\•E55ã^´Ô^&\^´Q;]æ&cOE;æ}^•ã`Ôæå{ã{´Ôâk}^´Ú@;d;c[|cæa&`]¦[å`&aa]}È;å\_Á Á

FDÁÜ^&^&|a]\*Á55ÁÚXÁ([å`|^•Áse)åÁ(c@?¦Á&[{][}^}@·Á @`!^Á\*ãzeaà|^LÁ

GDÁÜ^˘∙^Á§i Áį c@°¦Áɛ^&@;[ |[ \* ã⊁•LÁ

 $\begin{aligned} \text{HD}\ddot{O}\ddot{a} ] [\bullet aq4 (-As@AUa)^{|\bullet}As) & \text{HD}^{A}(c@AUa)^{A}(c@AUa) & \text{HD}^{A}(c@AUa)^{A}(c@AUa)^{A}(c@AUa)^{A}(c@AUa)^{A}(c@AUa)^{A}(c@AUa)^{A}(c@AUa)^{A}(c@AUa)^{A}(c@AUa)^{A}(c@AUa)^{A}(c@AUa)^{A}(c@AUa)^{A}(cA)$ 

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V@`¦^-{¦^Êxt[Áxeç[ãåÁ^]^cãaā;}Ê3;|^æ^Á^~^¦Át[ÁHUV`Y`'+`-{¦Áå^cæá}^åÁ(ãc∄æái;}Á(^æ`¦^•Áx@æá [ç^¦|æ];Á ão@áà^&[{{ã•āi}}ā]\*ÁæÁ, ^||ÈĂ

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%%CJ9FJ=9K<sup>·</sup>C:<sup>·</sup>9GAG<sup>·</sup>5B8<sup>·</sup>5I8≠H=B;<sup>·</sup> DFCHC7C@

# %%%9bj]fcbaYbHJ`UbX`GcVJU`AUbU[YaYbhGnghYa`f9GAGL`

## : fUa Yk cf\_

 $V @ \acute{A} = a a \acute{A} ( [ |\acute{A} ( a) a a * / \acute{A} ( a) * / \acute{A} ( a) * / \acute{A}$ 

- •Á Ü^˘˘ã^{ ^} œÁ[¦Á\*}çã[}{ ^}œA[ka]åÁ[&ãæ4Á[ &ãæ4Á[ à a]æ\*^{ ^} dÁ
- •Á Ü^˘˘ã^{ ^} ♂Á[ ¦Áœà^@[ å^¦Á} \* æ\*^{ ^} dÁ
- •Á Ü^˘˘ã^{ ^} @•Á[¦Á[æ];æ\*^{ ^} oÁ[-Áæà[¦Áæ];åÅ[]åããā[}•LÁ
- •Á Ü^˘˘ã^{ ^} œÁ; }Á{ ^!\*^} & Â; ^|\*^] æ^å} ^••Áæ) åÁ^•] [}•^ÈÁ
- • $A = U^{*} a^{+} e^{A} a^{+}$

# %%&`Acb]hcf]b[ `UbX`FYdcfh]b[ `

Ü^\* `|æb!Á{ [} c@;´Á!^] [¦cāj \* Á+[{ Ác@;Á&[} d:æ&q[¦Áæ);åÁ[]^¦æe[¦ÁQæcÁæÁ|æe^¦Á•;cæt^DÁ•@æd|Áà^Á • `à{ ãcc^åA{[ Ác@;Á] [ b^&cAå^cç^|[]^|ÁbÈEÁÓæ?}[`}æEÁV@;Ás• `^åÁ^] [¦o=Á@ed|Áa);&|`å^Áaj,-{¦{ æeā[}Á æ);åÁājåã&æe[¦•Á;ãc@ÁQZÔÁ?}çã[] { ^} cædÁæ);åÁ[8ãædÁ^] [¦cāj \* Á^``ã^{ ^} o=ÉÁ

## %%" <sup>•</sup>5i X]h]b[ <sup>·</sup>

ÁÒ}çã[}{ ^}œa¢àa)åÁ[&ãæ¢àĕåãrÁ,ã|Áæ••^••Áæá,¦[b\*&orÁ,^¦-{¦{ æ}&^áæ\*áði•óÆræði•óÆrÁ,¦[b\*&oÁ]^&ãã&Á ÒÙTÙÁ:@[`|åÁc@:Á,^^åÁæ}ã^ĚÁ

 $V @ \acute{Ase} a \ \tilde{a} \ \acute{A}_{k} \ \approx \acute{As} \ \acute{A}_{k}^{*} \ \tilde{a}^{a} \ \acute{As}_{k}^{*} \ \dot{a}^{a} \ \acute{As}_{k}^{*} \ \dot{a}^{a$ 

*Á*ÍÔÙQEËZAJ æ4Ű^][¦ơÁ

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- •Á U¦\*æ) ãæāā }æ¢á æšãč Áæ) åÁ^•[`¦&^•LÁ
- •Á P`{ æ} ÁÜ^•[` |&^• Áæ} åÁ{ ] |[^{ ^} ^} ók ? È É& @aå Áæà[ |ÉÁ{ | &^à Áæà[` |ÉÁ[ } Éãã & a í ā æaā] } Á and equal opportunity, workers' [ |\* æ} ã æaā] • É&[ } dæ&d[ |Á( æ) æ\* ^{ ^} dÉA^d^ } & @ ^} óA æ) åÁ{ ] |[^{ ^} dDA[ | & & LÁ
- •Á Ú[ ||č qā; }Á]; ^ç^} qā; }Á( ^æ\*; !^• Áæçæājaæà; |^Áæ¢A@; ÁÚXÁ]; |æ; óÁæ; àÁ?^\*; |æ; !^Á&[ { ] |ãæ; &AÁ , ãc@Á; æāā; }æAÁ^č ã^{ ^} @A§; &]; åð; \*Áæ; ] |ã&æà; |^ÁÓ•• ÁQīçæājaæà; |^Á/^&@; ãč^• Ě&Á
- A Community health, safety and security as it relates to the Company's ^¢ãcãj\*Á
   []^¦æãj} LÁ
- •Á Tæ)æ\*^{ ^}o⁄{{, 4}[ c^} œé#^Â@eeæå[ `•Á [ ¦\•LÁ
- •Á Yæc^Á, æ)æ\*^{ ^} ớ, ¦[&^å` ¦^•Á; }Áã^Áå` ¦ã,\*Áæ|Á, ![b^&ớ, @æ^•ÁÁ
- •ÁÞ[ã\*^Á\*^}^¦æað[}Á&`¦ð)\*Á&[}•d`&að[}Åaò]åÁ[]^¦æað[}LÁ
- •Á Ga^} cāsēkezāţ } Áţ -Áj [ c^} cāsekáv } çã[ } { ^} cækájāsekājāsekájāsekájāsekájāsekájāsekáj [ c^} cāsekás[ } cæţ āj æsaţ } Áœe ÁœÁ 8[ } •^~~^ } 8^A j. | [ b^8 ca[ ] ^| æsaţ ] • DúÁ
- •Á Uç^¦çã', Á[ Ác@ Á\* ]] |^ Á&@æaj ÁÇÈ ÉA\* ]] |ði ¦ ÉÁ&[ } dæ&d[ ¦ ÉA\* à Ë&[ } dæ&d[ i Á[ Á( æaj Á { æaj Á { æc^¦ãe+ Ác} à Å( Díca) å Áca^ } áca & Ac^ } cáã&æaj[ } Á[ -Á/ ^çæ) óA } çã[ } { ^} cædÊ\*[ & ãædÊ/æà[ ` ¦ Á æj åD[ ¦ Á] ; cædÊ\*[ & ãædÊ/æà[ ` ¦ Á æj åD[ ¦ Á] ; cædã] } Ás ` LÁs) å Á
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Environmental and Social Impact Assessment (ESIA) for developing a 200 MWac PV Power Plant Project Al-Muwaqqar



**Scoping Session Report** 

February 2017

APPENDIX A





Document Title:	Scoping Session Report
Project :	ESIA for Developing a 200 MWac PV Power Plant Project in Al-Muwaqqar
Code	1733
Client:	Abu Dhabi Future Energy Company PJSC- MASDAR

Main Contributors	Aspect/Section	Notes
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### **ANNEX 1: List of Attendees**

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## **1** INTRODUCTION

Abu Dhabi Future Energy Company PJSC – Masdar, which is the lead developer for this project / represented by Baynouna Solar Energy PSC – as the project company, has been granted an approval from the Government of Jordan, represented by the Ministry of Energy and Mineral Resources (MEMR), to develop a 200 MWac grid connected Photovoltaic project in Muwaqqar.

Baynouna aims to develop the solar energy project using PV technology to generate electricity in Jordan. The project will help to decrease the country's dependency on traditional forms of energy by increasing the availability and use of solar energy. The generated electricity will be injected into the national grid to support the country in meeting its renewable energy target of 10% by 2020.

MEMR and the National Electric Power Company (NEPCO) have successful track record with independent power projects (IPPs) that include top international power developers with active projects in Jordan

Arabtech Jardaneh (AJ) was appointed by Baynouna to prepare the Comprehensive Environment Impact Assessment (ESIA) Study for the project activities during the three phases of the project construction, operation and decommissioning. The ESIA will be prepared in accordance with the requirements of the Jordanian Environmental Impact Assessment (EIA) Regulation no. 37 of 2005, and the International Finance Corporation (IFC) Performance Standards (PSs), in addition to both EBRD Performance Requirements (PRs) and Equator Banks Principles in order to support the application for an environmental permit from the Ministry of Environment (MoEnv).

The Scoping Session is part of the Final Term of Reference (TOR), meanwhile, it is considered as essential part of the ESIA process. The scoping session includes all stakeholders potentially affected by the project, the Ministry of Environment (MoEnv) invited the public and the concerned private sectors to attend the session.

### 1.1 ESIA Objectives

The ESIA study will be used to support the application for an environmental permit from the MoEnv in line with the Jordanian Environmental Impact Assessment Regulation 37/2005.

In accordance with MoEnv's requirements, the EIA assignment consists of the following phases:

- Preparation of Preliminary ToR (*completed*);
- Attend and document scoping session with stakeholders (*completed*);
- Stakeholders scoping session (*completed*).
- Finalize and submit ToR following input from MoEnv (this document);
- Perform ESIA study and prepare ESIA Report;

• Preparation of an environmental and Social Management Plan (ESMP), to be incorporated into the EIA report.

The overall objective of the ESIA is the evaluation of the likely environmental and social impacts for the project activities during the three project phases, construction, operation and decommissioning, then to minimize/eliminate negative impacts and maximize positive impacts, in order to ensure that the environmental & social factors are considered in the decision-making process.

## **2 PURPOSE OF SCOPING SESSION**

The Scoping Session is an essential part of the ESIA process that includes all stakeholders potentially affected by the project, whether from the public or private sectors. The main purpose of the session is to present the proposed project and to solicit feedback concerning environmental and socio-economic impacts.

The objectives of the ESIA scoping session can be summarized as follows:

- Identify the main project stakeholders and their concerns;
- Inform the public about the project;
- Provide the opportunity for identified stakeholders to participate in the process of scoping significant environmental impacts;
- Identify those environmental and social impacts/concerns which are considered to be of key relevance and importance for the ESIA;
- Ensure appropriate approach and adequate focus are adopted during the ESIA;
- Establish the final Terms of Reference for the ESIA study.

The final output of the scoping process is the Final Terms of Reference (ToR) and a Scoping Statement Report which complies with the regulations of MoEnv, and which will further aid the consultant with the ESIA Study.

This Scoping Summary Report has been prepared in order to provide a brief description of the Project, record the feedback and comments received from stakeholders during the scoping session.

The scoping session for this project was held on Thursday, January 26<sup>th</sup> 2017 at Geneva Hotel in Amman; taking stakeholders comments and feedback into consideration throughout the ESIA in order to produce a comprehensive study that assess and covers all aspects of the Project.

## **3 SCOPING METHODOLOGY**

## 3.1 Invitations and Logistical Arrangements

Prior to commencement of the ESIA Scoping Session, a Preliminary Terms of Reference (ToR) document was prepared by AJ team and submitted to the MoEnv during the first week of January 2017. The Preliminary ToR provided the MoEnv with a project description, proposed approach to completing the required ESIA study, including provisions of impact assessment criteria and methods for establishing mitigation measures to control (eliminate and/or minimize) those impacts identified as significant, and a list of identified project-related key issues. The ToR Document was submitted to MoEnv before the scoping session in order to facilitate the scoping process.

AJ team coordinated with the MoEnv to hold the Scoping Session on January 26<sup>th</sup>, 2017.The MoEnv prepared and sent the official invitations to relevant stakeholders including representatives from various ministries and governmental institutions, academia, Non-Governmental Organizations (NGOs), relevant municipalities, National Electric Power Company (NEPCO), The Royal Society for the Conservation of Nature (RSCN) and many others.

The location, date and time of the session were as follows:

Location: Geneva Hotel, at 7<sup>th</sup> Circle – Amman, Jordan

Date: Thursday, January 26th 2017

Time: 10:00 am – 1:30 pm.

### 3.2 Scoping Session Components

The Scoping Session consisted of the following:

- Opening Statements by:
  - Eng. Izzat Abu Hamrah, Director of Licensing and Guidance Directorate at the Ministry of Environment.
  - Eng. Basel Dahleh, Project Manager / Clean Energy, MASDAR.
- ESIA Presentation:
  - A Scoping Presentation addressing Project Description and ESIA approach and potential impacts conducted by Ms. Rasha Tomaira– Senior Environmentalist - Environment Section, AJ.
  - Presentation of the project description, operations, and decommissioning in addition to project layout and Project Alternatives considered the Jordan Energy Strategy 2020, the detailed presentation is included in Annex 2.

The following is a general outline of the presentation:

- Introduction (ESIA Scoping)
  - Explanation of Scoping
  - Explanation of ESIA and its Purpose
  - ESIA Report Components
- Project Description
- Legislative Framework
  - Relevant Laws and Regulations to the Project, including MoEnv's Legislation as well as national Legislation.
- Approach to Establishing Baseline Conditions
  - Physical Environment
  - Biological Environment
  - Socio-economic Conditions
  - Cultural Heritage and Archeology
- Impact Assessment
  - ESIA Process
  - Environmental Aspects
  - Impact Significance
- Project Alternatives
- Key Potential Issues
- Environmental and Social Management Plan

Figure 1 below presents some pictures from the scoping session:



Figure 1: Pictures from the Scoping Session

- Discussions and Feedback period during which the stakeholders raised their issues of concern. The detailed comments, deliberations and issues raised are included in Section 3 below. Responses were provided by:
  - Eng. Izzat Abu Hamrah, Director of Licensing and Guidance Directorate at the Ministry of Environment.
  - Eng. Basel Dahleh, Project Manager, MASDAR.
  - Ms. Rasha Tomaira, Senior Environmentalist, AJ.
  - Mr. Khaled Nassar, Environmental Specialist Advisor, AJ.
  - Eng. Ahmad Al-Duhni, Generation's Contracts and Agreements Section Head, NEPCO.

## 4 MAIN ISSUES OF CONCERN

The scoping session was attended by stakeholders from a number of organizations including, but not limited to: Ministry of Environment, Ministry of Interior, Civil Defense, Ministry of Water and Irrigation, Ministry of Health, Ministry of Energy and Mineral Resources, NGOs, and many others. A detailed list of participants who attended the scoping session is provided in **Annex 1**. A number of representatives from the above entities raised comments, questions and concerns; a summary of these deliberations is provided in the next Section.

The main issues of that were tackled during the session can be summarized as follows:

- The positive impact on the local community and employment opportunity;
- Panels cleaning method and source of cleaning water;
- The project is considered as a green project.

AJ and MASDAR team will be committed to taking these issues into consideration during the ESIA Study, where relevant.

### 4.1 Deliberations

A summary of the deliberations is provided below, which includes the outcome from the working groups. All attendees were divided into three working groups, each group introduced their comments and discussed them in front of the remaining attendees. Eng. Basel Dahleh, the representative of MASDAR provided input as well to answer some inquiries.

Name	Organization	Contact	Comment/Feedback	Response
Dr. Motasem Saidan	Water, Energy, and Environment Center Director / The University of Jordan	0777680086	<ul> <li>Why did this project require a full environmental impact assessment study?</li> </ul>	Eng. Izzat clarified that the project produces 200 MWac, and any project that produces more than 20 MWac requires a full environmental impact assessment study as per the ministry of environment requirements.
			<ul> <li>Suggested that the scoping session could have been held somewhere near the project area so more locals can participate in the session.</li> </ul>	Eng. Izzat stated that MoEnv's role includes preparing invitations to all relevant stakeholders including local community representatives, and added that the venue shall be somewhere suitable even if in Amman, given that the project area (Muwaqqar) belongs to Amman Governorate.
			<ul> <li>Commented that given the dusty nature of the project area; more than 4 water cleaning cycles for the PV panels will be required.</li> </ul>	Masdar stated that they are aware of this issue. And plan not to exceed 2,000 m3 limit of water per cleaning cycle. As a result, a dry cleaning process will be implemented in case the 2000m <sup>3</sup> limit is exceeded to fortify the cleaning process.

#### Table 1: Summary of comments and feedback discussed during the session

Name	Organization	Contact	Comment/Feedback	Response
			conducting a Grid impact assessment study is	Masdar clarified that a preliminary grid assessment study has been already conducted, and a more advanced and detailed study is currently in progress. Eng. Ahmed Al-Dohni/NEPCO added that Masdar in the process of preparing an advanced and detailed grid assessment in coordination with NEPCO.
Ms. Samia Al-Jbour	Nuqera Organization " (Local community organization)"	0777671002	project will have any influence on health?	AJ stated that solar projects are not associated with significant emissions/pollutants, in fact they are green projects with lesser impacts that other conventional electricity producing plants. Also with regards to glaring effects, the PV panel technology consists of an anti-reflecting coating, significantly reducing any glaring effects. Hence, there will be no health impacts.
			<ul> <li>Will the project take into account wind speed calculations?</li> </ul>	Masdar stated that all required studies and measurements regarding wind speed and direction have been conducted and been taken in consideration in project design.

Scoping Session Report ESIA for developing a 200 MWac PV Power Plant Project in Al-Muwaqqar

Name	Organization	Contact	Comment/Feedback	Response
			<ul> <li>Which source of water will be used?</li> </ul>	Masdar clarified that a limit of 2000m <sup>3</sup> per cleaning is set, if proven to be not sufficient other alternatives such as dry cleaning will be considered.
			<ul> <li>How will this project benefit the local community?</li> </ul>	Masdar clarified that 70% of project's labor shall be dedicated for Jordanian workforce, with prioritizing locals for these job opportunities, should their qualification match the needed requirements. Moreover, Masdar will be committed to implement a Corporate Social Responsibility (CSR) program where a certain budget will be allocated for such community development activities.
EngIzzat abu Hamra	Ministry of Environment	0799914652	<ul> <li>Inquired whether there will be any on site labor camps?</li> </ul>	Masdar stated that they will use the close accommodation facilities available in Amman or within the surroundings of the project area.
			<ul> <li>Emphasized that backfill is a critical issue that requires special attention on site so it</li> </ul>	in favor of the project area, so the construction team will try to keep

Name	Organization	Contact	Comment/Feedback	Response
			does not result in blocking wadis' paths.	for the project and Masdar is committed to apply the recommendations mentioned in the study – some of these recommendations include using rip raps and also culverts will be used where wadis cross internal and access roads.
Eng. Ali Khawaldeh	Ministry of Energy and Mineral Resources (MEMR)	0777680086 ali@memr.gov	<ul> <li>High wind speed can result in breaking panels, has this been taken in consideration in project design?</li> </ul>	Masdar clarified that wind speed and direction are some of the many parameters that were taken in consideration in project design.

## 4.2 Groups Deliberations

The scoping session attendees were split into three discussion groups (Physical Environment / Biological Environment and Socio-economics), each group was responsible to brainstorm and discuss the potential positive and negative impacts generated on its relevant parameters from all project phases (construction, operation and decommissioning). Towards the end of the group work activity, each group nominated a person to present their discussion outcomes.

#### Group One: Physical Environment

This group discussed the anticipated positive and negative impacts on the physical environment during all project phases (Construction, Operation, and decommissioning) and the required mitigation measures to reduce these impacts.

scinal-Noise Grund



	Key Issues and Concerns	Comments Response
•	<ul> <li>Air quality: low impact during the construction phase as a result of site levelling and construction vehicles.</li> <li>Noise: low impact during construction and decommissioning since there are almost no surrounding facilities of the project – during operations noise impacts are negligible.</li> <li>Soil: Negative impact caused by potential oil spillage, wastewater leakage, and chemicals in panels.</li> </ul>	All these comments shall be taken in consideration where applicable during the preparation of ESIA Report
•	Ground Water: No impact	

Key Issues and Concerns	Comments Response
<ul> <li>Hydrology: Negative impact if no precautions to be taken in consideration to protect wadis.</li> <li>Landscape and Topography: Negative impact due to leveling activities.</li> </ul>	
Impacts during construction and decommissioning are expected to be similar.	

#### Group Two: Biological Environment

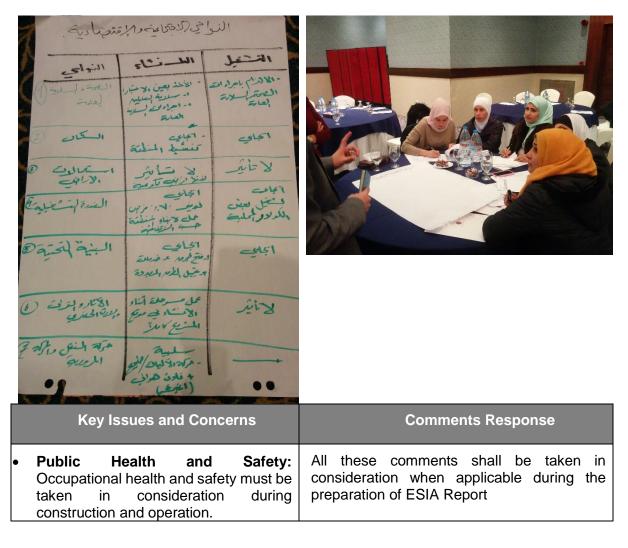
This group discussed the anticipated positive and negative impacts on the biological environment during all project phases (Construction, Operation, and decommissioning) and the required mitigation measures to reduce these impacts.

البيثة الحيوية (النوع أنيوي -ازاله الغناد الباتي ان درمدت - ترصي الغار من المراكي البائن . - محلمان معاد الرالي في الناط المن بعارة - محلمان معاده الرالي . - محمد العلود ( المعاش) . - العصو ( النام من مولاد ) - ماده الرالي م - الناباق الطلبه النفلان (معم) 2- Operation متزر النابير النانج من حرك السياران A- Flora - neg .-Pas. -- neg. - rae actio B-Fauna < Pos-Reptiles & Mammels neg . - ) Pos. poistob مأدى ليعين الزواحق لأ **Key Issues and Concerns Comments Response** Flora: negative impact during the All these comments shall be taken in consideration where applicable during the construction phase, positive and negative preparation of ESIA Report some impacts during operation phase. Fauna (Birds): Negative impact on birds, noise and vehicles emissions affecting life forms negatively. Induced shade from panels is reflected as a positive impact. Reptiles and Mammals: Negative impact represented by relocation of

mammals and reptiles due to project activities and the different types of wastes produced during project phases. Water used for cleaning can
be a drinking water source for some species making a positive impact. On the other hand, if dry cleaning is to be used negative impacts might rise like noise emissions.
After the decommissioning phase all above impact will disappear.

#### Group Three: Socio- economic

This group discussed the anticipated positive and negative impacts on the Socio- economic conditions during all project phases (Construction and Operation) and the required mitigation measures to reduce these impacts.



•	Population: Positive due to
	employment opportunities.
•	Land use: no impact
•	Workforce and employment: positive
	impact since the project will provide
	employment of which 70% will be
	dedicated to Jordanians with prioritizing
	locals.
•	<b>Utilities and Infrastructure</b> : Positive impact by improvement of the existing utilities.
•	Transportation and Traffic: Negative
	impact from heavy vehicles movement
	and air pollution induced by these vehicles.
•	Cultural and Archaeology Heritage:
	No Impact if all necessary surveys are conducted and proven that there's no
	archeology within the site.

# **ANNEX 1: List of Attendees**

ARBTECH JARDANEH



الموضوع: الحلفة التشاورية لدراسة تقييم الأثر البيني والاجتماعي لمشروع توليد الكهرباء من الطافة الشمسية في منطفة الموقر ٢٦ كانون ثاني ٢٠١٧ فندق جنيفا / عمان

Asdar Masdar

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Scoping Session - ESIA for developing a 200 MWac PV Power Plant Project in Al Muwaqqar – Jan 26th 2017 – Geneva Hotel / Amman

A ARABTECH JARDANEH



Masdar Masdar

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Scoping Session - ESIA for developing a 200 MWac PV Power Plant Project in Al Muwaqqar – Jan 26th 2017 – Geneva Hotel / Amman

ARABTECH JARDANEH



الموضوع: الحلفة التشاورية لدراسة تقييم الأثر البيئي والاجتماعي لمشروع توليد الكهرباء من الطافة الشمسية في منطقة الموقر

 Masdar Masdar ۲۲ كانون ثاني ۲۰۰۷، فندق جنيفا / عمان

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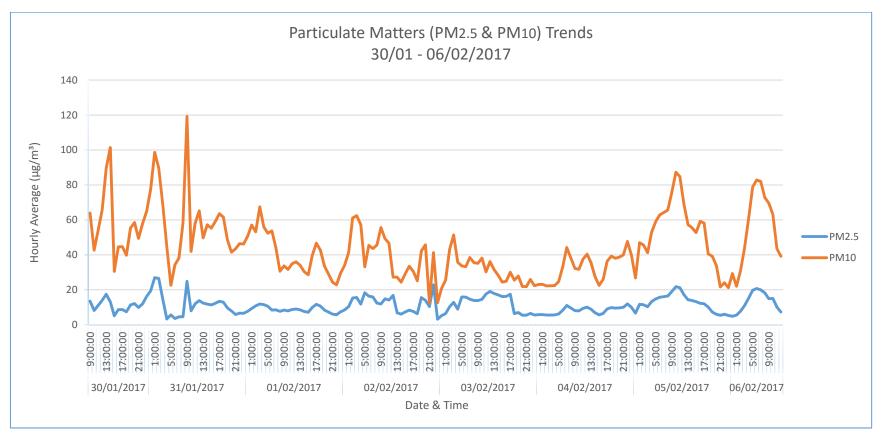
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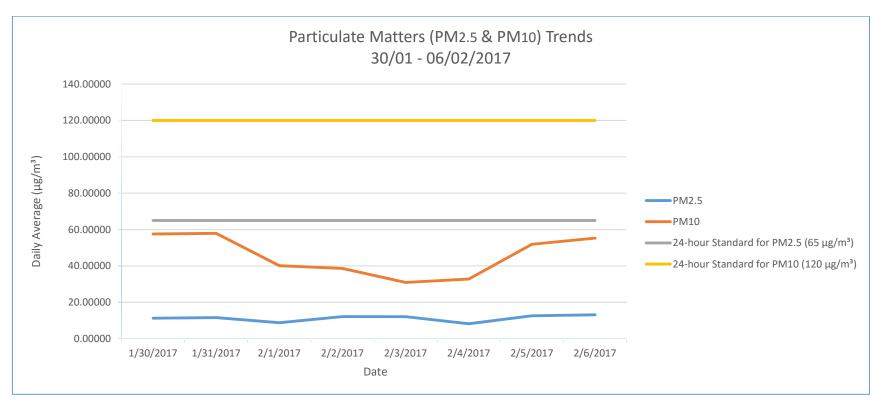
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# **Monitoring Concentrations Trends**



Hourly Concentrations of Particulate Matters during the Monitoring Period (30th Jan. - 6th Feb. 2017



#### Daily Concentrations of Particulate Matters during the Monitoring Period (30th Jan. - 6th Feb. 2017

# **Hourly Raw Data**

Date	Hour	PM2.5 (µg/m <sup>3</sup> )	PM10 (µg/m <sup>3</sup> )
30/01/2017	9:00 AM	13.48652	63.94608
30/01/2017	10:00 AM	8.16617	42.66468
30/01/2017	11:00 AM	11.0514	54.2056
30/01/2017	12:00 PM	13.9496	65.7984
30/01/2017	1:00 PM	17.4306	89.7224
30/01/2017	2:00 PM	13.1012	101.4048
30/01/2017	3:00 PM	5.14082	30.56328
30/01/2017	4:00 PM	8.65095	44.6038
30/01/2017	5:00 PM	8.66721	44.66884
30/01/2017	6:00 PM	7.43537	39.74148
30/01/2017	7:00 PM	11.338	55.352
30/01/2017	8:00 PM	12.1255	58.502
30/01/2017	9:00 PM	9.85607	49.42428
30/01/2017	10:00 PM	11.9738	57.8952
30/01/2017	11:00 PM	16.2254	64.9016
31/01/2017	12:00 AM	19.3802	77.5208
31/01/2017	1:00 AM	26.973	98.623
31/01/2017	2:00 AM	26.4852	89.576
31/01/2017	3:00 AM	14.7155	68.862
31/01/2017	4:00 AM	3.26451	44.548
31/01/2017			22.59072
31/01/2017			34.26048
31/01/2017			38.1788
31/01/2017	8:00 AM	4.57495	58.2998
31/01/2017	9:00 AM	24.8024	119.2096
31/01/2017	10:00 AM	7.99141	41.96564
31/01/2017	11:00 AM	12.004	58.016
31/01/2017	12:00 PM	13.7979	65.1916
31/01/2017	1:00 PM	12.4241	49.6964
31/01/2017	2:00 PM	11.7976	57.1904
31/01/2017	3:00 PM	11.3146	55.2584
31/01/2017	4:00 PM	12.2707	59.0828
31/01/2017	5:00 PM	13.3841	63.5364
31/01/2017	6:00 PM	12.8734	61.4936
31/01/2017	7:00 PM	9.67295	48.6918
31/01/2017	8:00 PM	7.88741	41.54964
31/01/2017	9:00 PM	5.86685	43.4674
31/01/2017	10:00 PM	6.59711	46.38844
31/01/2017	11:00 PM	6.55797	46.23188
01/02/2017	12:00 AM	7.67522	50.70088
01/02/2017	1:00 AM	9.26262	57.05048
01/02/2017	2:00 AM	10.8014	53.2056
01/02/2017	3:00 AM	11.8662	67.4648
01/02/2017	4:00 AM	11.5035	56.014
01/02/2017	5:00 AM	10.5915	52.366
01/02/2017	6:00 AM	8.4246	53.6984
01/02/2017	7:00 AM	8.51498	44.05992
01/02/2017	8:00 AM	7.65677	30.62708

#### PM Monitoring at Telal Al Rukban from 30th Jan. - 6th Feb. 2017 Hourly Average Data

01/02/2017	9:00 AM	8.42483	33.69932
01/02/2017	10:00 AM	7.91974	31.67896
01/02/2017	11:00 AM	8.72671	34.90684
01/02/2017	12:00 PM	8.9952	35.9808
01/02/2017	1:00 PM	8.49895	33.9958
01/02/2017	2:00 PM	7.58813	30.35252
01/02/2017	3:00 PM	7.15345	28.6138
01/02/2017	4:00 PM	9.92152	39.68608
01/02/2017	5:00 PM	11.6772	46.7088
01/02/2017	6:00 PM	10.6891	42.7564
01/02/2017	7:00 PM	8.40064	33.60256
01/02/2017	8:00 PM	7.28499	29.13996
01/02/2017	9:00 PM	6.09941	24.39764
01/02/2017	10:00 PM	5.71528	22.86112
01/02/2017	11:00 PM	7.37144	29.48576
02/02/2017	12:00 AM	8.50053	34.00212
02/02/2017	1:00 AM	10.3509	41.4036
02/02/2017	2:00 AM	15.2855	61.142
02/02/2017	3:00 AM	15,6063	62.4252
02/02/2017	4:00 AM	11.8135	57.254
02/02/2017	5:00 AM	18.29342	33.17368
02/02/2017	6:00 AM	16.34881	45.39524
02/02/2017	7:00 AM	15.89712	43.58848
02/02/2017	8:00 AM	12.39353	45.57412
02/02/2017	9:00 AM	11.89853	55.59412
02/02/2017	10:00 AM	14.82516	49.30064
02/02/2017	11:00 AM	14.1531	46.6124
02/02/2017	12:00 PM	16.80491	27.21964
02/02/2017	1:00 PM	6.81213	27.24852
02/02/2017	2:00 PM	6.09008	24.36032
02/02/2017	3:00 PM	7.28728	29.14912
02/02/2017	4:00 PM 5:00 PM	8.36966 7.6138	33.47864 30.4552
02/02/2017			
02/02/2017	6:00 PM 7:00 PM	6.28577	25.14308
02/02/2017		15.5462	42.1848
02/02/2017	8:00 PM	13.94179	45.76716
02/02/2017	9:00 PM	10.40312	12.60078 41.2828
02/02/2017	10:00 PM	22.8207	1000 AUG 2012
02/02/2017	11:00 PM	3.15663	12.62
03/02/2017	12:00 AM	5.19316	20.77
03/02/2017	1:00 AM	6.37849	25.5
03/02/2017	2:00 AM	10.3114	43.2456
03/02/2017	3:00 AM	12.8515	51.406
03/02/2017	4:00 AM	8.93563	35.74252
03/02/2017	5:00 AM	15.91907	33.67628
03/02/2017	6:00 AM	15.80349	33.21396
03/02/2017	7:00 AM	14.6216	38.4864
03/02/2017	8:00 AM	13.88083	35.52332
03/02/2017	9:00 AM	13.78553	35.14212
03/02/2017	10:00 AM	14.52699	38.10796
03/02/2017	11:00 AM	17.56183	30.24732

PM Monitoring at Telal Al Rukban from 30th Jan. - 6th Feb. 2017 Hourly Average Data

PM Monitoring at Telal Al Rukban	from 30th Jan 6th Feb. 2017
Hourly Aver	age Data

02/02/2017	12:00 DM	10.02402	2012008
03/02/2017	12:00 PM	19.03492	36.13968
03/02/2017	1:00 PM	17.89448	31.57792
03/02/2017	2:00 PM	17.08759	28.35036
03/02/2017	3:00 PM	16.10209	24.40836
03/02/2017	4:00 PM	16.21162	24.84648
03/02/2017	5:00 PM	17.51123	30.04492
03/02/2017	6:00 PM	6.38321	25.53284
03/02/2017	7:00 PM	6.97386	27.89544
03/02/2017	8:00 PM	5.46952	21.87808
03/02/2017	9:00 PM	5.45859	21.83436
03/02/2017	10:00 PM	6.48801	25.95204
03/02/2017	11:00 PM	5.57657	22.30628
04/02/2017	12:00 AM	5.76277	23.05108
04/02/2017	1:00 AM	5.77143	23.08572
04/02/2017	2:00 AM	5.55931	22.23724
04/02/2017	3:00 AM	5.5783	22.3132
04/02/2017	4:00 AM	5.59762	22.39048
04/02/2017	5:00 AM	6.19668	24.78672
04/02/2017	6:00 AM	8.32175	33.287
04/02/2017	7:00 AM	11.0446	44.1784
04/02/2017	8:00 AM	9.56724	38.26896
04/02/2017	9:00 AM	8.05935	32.2374
04/02/2017	10:00 AM	7.92685	31.7074
04/02/2017	11:00 AM	9.36933	37.47732
04/02/2017	12:00 PM	10.1023	40.4092
04/02/2017	1:00 PM	8.88134	35.52536
04/02/2017	2:00 PM	6.86386	27.45544
04/02/2017	3:00 PM	5.63328	22.53312
04/02/2017	4:00 PM	6.47893	25.91572
04/02/2017	5:00 PM	9.08774	36.35096
04/02/2017	6:00 PM	9.81024	39.24096
04/02/2017	7:00 PM	9.50452	38.01808
04/02/2017	8:00 PM	9.66705	38.6682
04/02/2017	9:00 PM	9.99339	39.97356
04/02/2017	10:00 PM	11.92426	47.69704
04/02/2017	11:00 PM	9.95999	39.83996
05/02/2017	12:00 AM	6.69644	26.78576
05/02/2017	1:00 AM	11.73703	46.94812
05/02/2017	2:00 AM	11.40928	45.63712
05/02/2017	3:00 AM	10.3062	41.2248
05/02/2017	4:00 AM	13.2646	53.0584
05/02/2017	5:00 AM	14.7465	58.986
05/02/2017	6:00 AM	15.7071	62.8284
05/02/2017	7:00 AM	16.06	64.24
05/02/2017	8:00 AM	16.4086	65.6344
05/02/2017	9:00 AM	18.9835	75.934
05/02/2017	10:00 AM	21.8133	87.2532
05/02/2017	11:00 AM	21.1946	84.7784
05/02/2017	12:00 PM	17.2063	68.8252
05/02/2017	1:00 PM	14.2971	57.1884
05/02/2017	2:00 PM	13.8795	55.518
05/02/2017	2:00 PIVI	12.0/22	22.210

Page 3 of 4

05/02/2017	3:00 PM	13.1853	52.7412
05/02/2017	4:00 PM	12.2855	59.142
05/02/2017	5:00 PM	12.0444	58.1776
05/02/2017	6:00 PM	10.1372	40.5
05/02/2017	7:00 PM	7.29828	39.19312
05/02/2017	8:00 PM	5.98479	33.93
05/02/2017	9:00 PM	5.40278	21.611
05/02/2017	10:00 PM	6.00679	24.027
05/02/2017	11:00 PM	5.30117	21.204
06/02/2017	12:00 AM	4.82613	29.3
06/02/2017	1:00 AM	5.49972	21.99888
06/02/2017	2:00 AM	7.7505	31.002
06/02/2017	3:00 AM	10.9377	43.7508
06/02/2017	4:00 AM	15.1885	60.754
06/02/2017	5:00 AM	19.723	78.892
06/02/2017	6:00 AM	20.7119	82.8476
06/02/2017	7:00 AM	20.0053	82.0212
06/02/2017	8:00 AM	18.2076	72.8304
06/02/2017	9:00 AM	14.8983	69.5932
06/02/2017	10:00 AM	15.0458	63.1832
06/02/2017	11:00 AM	10.1372	43.5488
06/02/2017	12:00 PM	7.29828	39.19312

PM Monitoring at Telal Al Rukban from 30th Jan. - 6th Feb. 2017 Hourly Average Data

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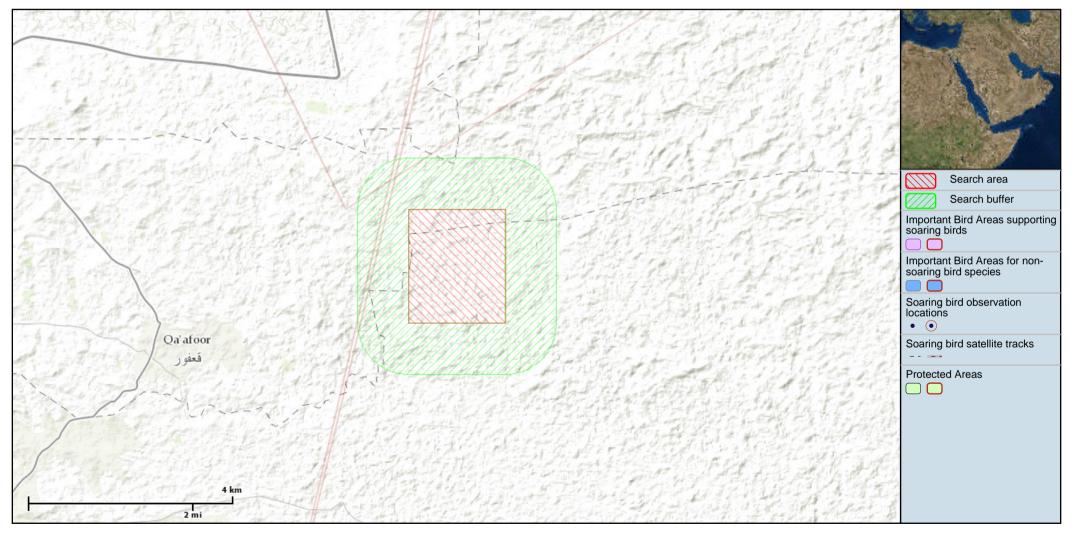
#### SEARCH SUMMARY

Masder 1km buffer Countries: Jordan Centroid: N31.870 E36.210 with 1 km buffer Combined Sensitivity: Potential (0) 0 soaring bird species observed while a further 25 soaring bird species are thought to occur in this area. 0 soaring bird observation locations. 0 IBAs supporting soaring birds plus a further 0 IBAs for non-soaring bird species. 0 protected sites.

2 satellite tracked migratory routes.



#### MAP





#### **GUIDANCE ON INTERPRETING SEARCH RESULTS**

For each search that a user performs, the tool calculates a sensitivity value based on the available soaring bird data and assigns the location to one of six sensitivity categories (defined in more detail below). This calculation takes into account the proportion of each species' global population present, the global conservation status (IUCN Red List) of each species and the inherent collision vulnerability of each species based on their morphology and flight behaviour.

Information for this region is incomplete and an appropriate Environmental Impact Assessments (EIA) should always be undertaken to fully assess the sensitivity of a site. Further information on the underlying methodology can be found in the Instructions section of the web tool.

Sensitivity category: UNKNOWN

There are insufficient soaring bird data on which to base a sensitivity score. This should not, however, be interpreted as meaning that a site has no or low sensitivity.

Sensitivity category: POTENTIAL A small number of soaring bird records exist within the defined search area suggesting that the site could be sensitive.

Sensitivity category: MEDIUM and HIGH

Soaring bird species are known to be present in significant numbers. Caution advised as development at this location may result in significant impacts on the populations of species present. Development may not be appropriate at or near to this location or may be appropriate only if special mitigation measures are put in place.

Sensitivity category: VERY HIGH and OUTSTANDING

Soaring bird species are known to be present in very significant numbers. Caution advised as development at this location may result in considerable impacts on the populations of species present. Wind energy development is unlikely to be appropriate at or near to this location.



Soaring Bird Sensitivity Map: A planning tool for wind energy and other sectors

## SPECIES (25)

Name	Peak Count	Presence	SVI	Status	Global population	Source
Lesser Kestrel	-	expected	6	LC	170000	BirdLife species range map
Bonelli's Eagle	-	expected	9	LC	10000	BirdLife species range map
Eastern Imperial Eagle	-	expected	9	VU	9250	BirdLife species range map
Steppe Eagle	-	expected	9	LC	160000	BirdLife species range map
White Stork	-	tracked	10	LC	510000	Fiedler et al.
Black Stork	-	expected	10	LC	34000	BirdLife species range map
Hen Harrier	-	expected	8	LC	370000	BirdLife species range map
Pallid Harrier	-	expected	8	NT	36000	BirdLife species range map
Montagu's Harrier	-	expected	8	LC	540000	BirdLife species range map
Greater Spotted Eagle	-	expected	9	VU	9100	BirdLife species range map
Lesser Spotted Eagle	-	expected	9	LC	79000	BirdLife species range map
Saker Falcon	-	expected	6	EN	32700	BirdLife species range map
Eurasian Sparrowhawk	-	expected	6	LC	4000000	BirdLife species range map
Peregrine Falcon	-	expected	6	LC	500000	BirdLife species range map
Eurasian Hobby	-	expected	6	LC	1200000	BirdLife species range map
Common Kestrel	-	expected	6	LC	8000000	BirdLife species range map



### SPECIES (25)

Name	Peak Count	Presence	SVI	Status	Global population	Source
Red-footed Falcon	-	expected	6	NT	550000	BirdLife species range map
Common Crane	-	expected	10	LC	365000	BirdLife species range map
Griffon Vulture	-	expected	10	LC	1000000	BirdLife species range map
Booted Eagle	-	expected	9	LC	253000	BirdLife species range map
Osprey	-	expected	7	LC	750000	BirdLife species range map
European Honey- buzzard	-	expected	7	LC	675000	BirdLife species range map
Short-toed Snake-eagle	-	expected	7	LC	170000	BirdLife species range map
Black Kite	-	expected	8	LC	2625000	BirdLife species range map
Long-legged Buzzard	-	expected	7	LC	274000	BirdLife species range map



### SATELLITE TRACKS (2)

Count	Species	Source
2	White Stork	Fiedler et al.



Name	Peak Count	Presence	SVI		Status	Global population	Source
Lesser Kestrel	-	expected	6		LC	170000	BirdLife species range map
Bonelli's Eagle	-	expected	9		LC	10000	BirdLife species range map
Eastern Imperial Eagle	-	expected	9		VU	9250	BirdLife species range map
Steppe Eagle	-	expected	9		LC	160000	BirdLife species range map
White Stork	-	tracked	10		LC	510000	Fiedler et al.
Name		SI	•	Туре	Distance	Source	
Flight - 10		Unknown		Track	unavailable	Fiedler et al.	
Flight - 10		Unknown		Track	unavailable	Fiedler et al.	
Black Stork	-	expected	10		LC	34000	BirdLife species range map
Hen Harrier	-	expected	8		LC	370000	BirdLife species range map
Pallid Harrier	-	expected	8		NT	36000	BirdLife species range map
Montagu's Harrier	-	expected	8		LC	540000	BirdLife species range map
Greater Spotted Eagle	-	expected	9		VU	9100	BirdLife species range map
Lesser Spotted Eagle	-	expected	9		LC	79000	BirdLife species range map
Saker Falcon	-	expected	6		EN	32700	BirdLife species range map
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Name	Peak Count	Presence	SVI	Status	Global population	Source
Eurasian Sparrowhawk	-	expected	6	LC	4000000	BirdLife species range map
Peregrine Falcon	-	expected	6	LC	500000	BirdLife species range map
Eurasian Hobby	-	expected	6	LC	1200000	BirdLife species range map
Common Kestrel	-	expected	6	LC	8000000	BirdLife species range map
Red-footed Falcon	-	expected	6	NT	550000	BirdLife species range map
Common Crane	-	expected	10	LC	365000	BirdLife species range map
Griffon Vulture	-	expected	10	LC	1000000	BirdLife species range map
Booted Eagle	-	expected	9	LC	253000	BirdLife species range map
Osprey	-	expected	7	LC	750000	BirdLife species range map
European Honey- buzzard	-	expected	7	LC	675000	BirdLife species range map
Short-toed Snake- eagle	-	expected	7	LC	170000	BirdLife species range map
Black Kite	-	expected	8	LC	2625000	BirdLife species range map
Long-legged Buzzard	-	expected	7	LC	274000	BirdLife species range map



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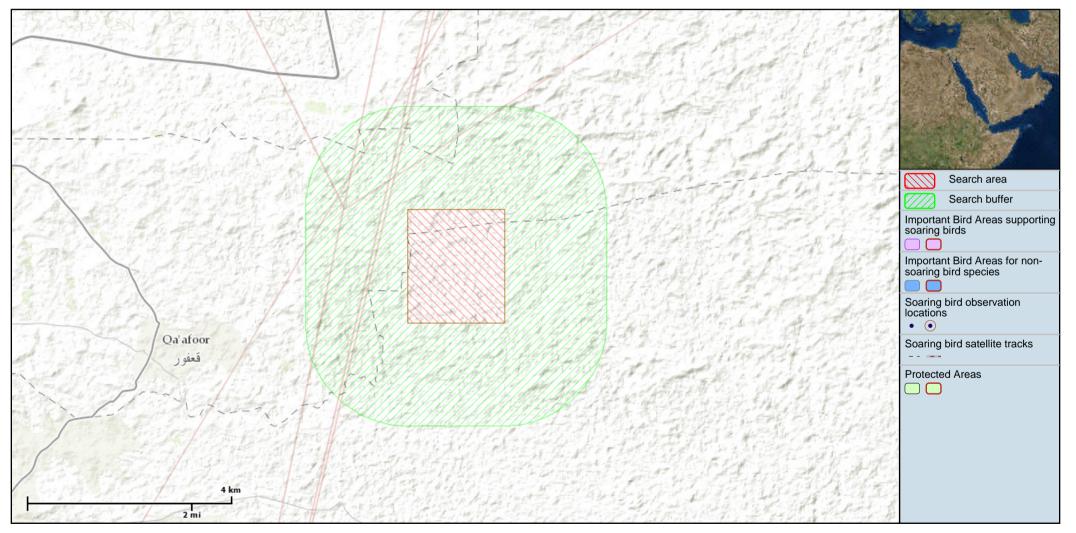
#### SEARCH SUMMARY

Masder 2km buffer Countries: Jordan Centroid: N31.870 E36.210 with 2 km buffer Combined Sensitivity: Potential (0) 0 soaring bird species observed while a further 23 soaring bird species are thought to occur in this area. 0 soaring bird observation locations. 0 IBAs supporting soaring birds plus a further 0 IBAs for non-soaring bird species. 0 protected sites.

4 satellite tracked migratory routes.



#### MAP





#### **GUIDANCE ON INTERPRETING SEARCH RESULTS**

For each search that a user performs, the tool calculates a sensitivity value based on the available soaring bird data and assigns the location to one of six sensitivity categories (defined in more detail below). This calculation takes into account the proportion of each species' global population present, the global conservation status (IUCN Red List) of each species and the inherent collision vulnerability of each species based on their morphology and flight behaviour.

Information for this region is incomplete and an appropriate Environmental Impact Assessments (EIA) should always be undertaken to fully assess the sensitivity of a site. Further information on the underlying methodology can be found in the Instructions section of the web tool.

Sensitivity category: UNKNOWN

There are insufficient soaring bird data on which to base a sensitivity score. This should not, however, be interpreted as meaning that a site has no or low sensitivity.

Sensitivity category: POTENTIAL A small number of soaring bird records exist within the defined search area suggesting that the site could be sensitive.

Sensitivity category: MEDIUM and HIGH

Soaring bird species are known to be present in significant numbers. Caution advised as development at this location may result in significant impacts on the populations of species present. Development may not be appropriate at or near to this location or may be appropriate only if special mitigation measures are put in place.

Sensitivity category: VERY HIGH and OUTSTANDING

Soaring bird species are known to be present in very significant numbers. Caution advised as development at this location may result in considerable impacts on the populations of species present. Wind energy development is unlikely to be appropriate at or near to this location.



### SPECIES (23)

Name	Peak Count	Presence	SVI	Status	Global population	Source
Peregrine Falcon	-	expected	6	LC	500000	BirdLife species range map
Steppe Eagle	-	expected	9	LC	160000	BirdLife species range map
White Stork	-	tracked	10	LC	510000	Fiedler et al.
Black Stork	-	expected	10	LC	34000	BirdLife species range map
Hen Harrier	-	expected	8	LC	370000	BirdLife species range map
Pallid Harrier	-	expected	8	NT	36000	BirdLife species range map
Montagu's Harrier	-	expected	8	LC	540000	BirdLife species range map
Greater Spotted Eagle	-	expected	9	VU	9100	BirdLife species range map
Lesser Spotted Eagle	-	expected	9	LC	79000	BirdLife species range map
Saker Falcon	-	expected	6	EN	32700	BirdLife species range map
Lesser Kestrel	-	expected	6	LC	170000	BirdLife species range map
Eastern Imperial Eagle	-	expected	9	VU	9250	BirdLife species range map
Eurasian Hobby	-	expected	6	LC	1200000	BirdLife species range map
Common Kestrel	-	expected	6	LC	8000000	BirdLife species range map
Red-footed Falcon	-	expected	6	NT	550000	BirdLife species range map
Common Crane	-	expected	10	LC	365000	BirdLife species range map



### SPECIES (23)

Name	Peak Count	Presence	SVI	Status	Global population	Source
Griffon Vulture	-	expected	10	LC	1000000	BirdLife species range map
Booted Eagle	-	expected	9	LC	253000	BirdLife species range map
Osprey	-	expected	7	LC	750000	BirdLife species range map
European Honey- buzzard	-	expected	7	LC	675000	BirdLife species range map
Short-toed Snake-eagle	-	expected	7	LC	170000	BirdLife species range map
Black Kite	-	expected	8	LC	2625000	BirdLife species range map
Long-legged Buzzard	-	expected	7	LC	274000	BirdLife species range map



### SATELLITE TRACKS (4)

Count	Species	Source
4	White Stork	Fiedler et al.



Name	Peak Count	Presence	SVI	Status	Global population	Source
Peregrine Falcon	-	expected	6	LC	500000	BirdLife species range map
Steppe Eagle	-	expected	9	LC	160000	BirdLife species range map
White Stork	-	tracked	10	LC	510000	Fiedler et al.
Name		SI	Туре	Distance	Source	
Flight - 10		Unknown	Track	unavailable	Fiedler et al.	
Flight - 10		Unknown	Track	unavailable	Fiedler et al.	
Flight - 10		Unknown	Track	unavailable	Fiedler et al.	
Flight - 10		Unknown	Track	unavailable	Fiedler et al.	
Black Stork	-	expected	10	LC	34000	BirdLife species range map
Hen Harrier	-	expected	8	LC	370000	BirdLife species range map
Pallid Harrier	-	expected	8	NT	36000	BirdLife species range map
Montagu's Harrier	-	expected	8	LC	540000	BirdLife species range map
Greater Spotted Eagle	-	expected	9	VU	9100	BirdLife species range map
Lesser Spotted Eagle	-	expected	9	LC	79000	BirdLife species range map
Saker Falcon	-	expected	6	EN	32700	BirdLife species range map



Name	Peak Count	Presence	SVI	Status	Global population	Source
Lesser Kestrel	-	expected	6	LC	170000	BirdLife species range map
Eastern Imperial Eagle	-	expected	9	VU	9250	BirdLife species range map
Eurasian Hobby	-	expected	6	LC	1200000	BirdLife species range map
Common Kestrel	-	expected	6	LC	8000000	BirdLife species range map
Red-footed Falcon	-	expected	6	NT	550000	BirdLife species range map
Common Crane	-	expected	10	LC	365000	BirdLife species range map
Griffon Vulture	-	expected	10	LC	1000000	BirdLife species range map
Booted Eagle	-	expected	9	LC	253000	BirdLife species range map
Osprey	-	expected	7	LC	750000	BirdLife species range map
European Honey- buzzard	-	expected	7	LC	675000	BirdLife species range map
Short-toed Snake- eagle	-	expected	7	LC	170000	BirdLife species range map
Black Kite	-	expected	8	LC	2625000	BirdLife species range map
Long-legged Buzzard	-	expected	7	LC	274000	BirdLife species range map



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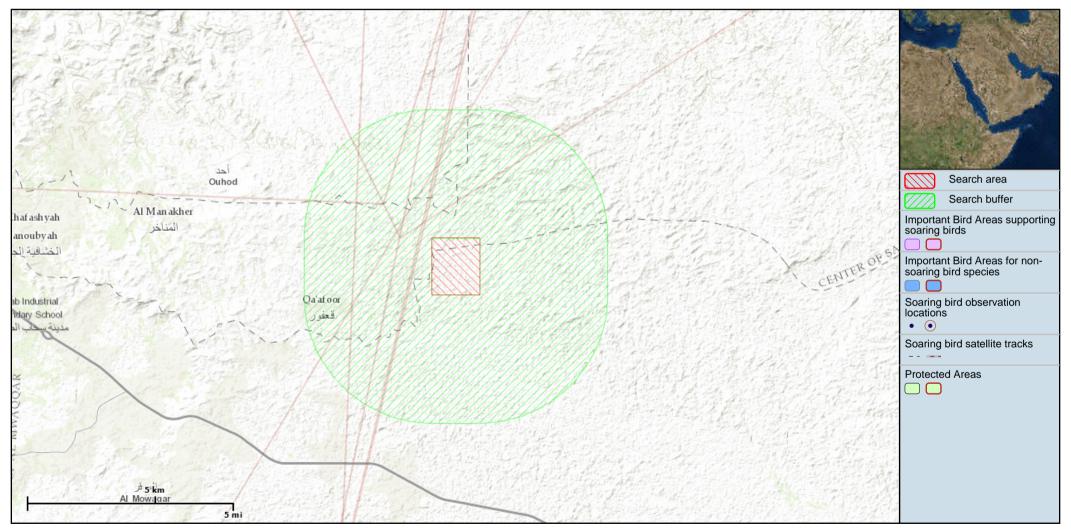
#### SEARCH SUMMARY

Masder 5km Countries: Jordan Centroid: N31.870 E36.210 with 5 km buffer Combined Sensitivity: Potential (0) 0 soaring bird species observed while a further 23 soaring bird species are thought to occur in this area. 0 soaring bird observation locations. 0 IBAs supporting soaring birds plus a further 0 IBAs for non-soaring bird species. 0 protected sites.

6 satellite tracked migratory routes.



#### MAP





#### GUIDANCE ON INTERPRETING SEARCH RESULTS

For each search that a user performs, the tool calculates a sensitivity value based on the available soaring bird data and assigns the location to one of six sensitivity categories (defined in more detail below). This calculation takes into account the proportion of each species' global population present, the global conservation status (IUCN Red List) of each species and the inherent collision vulnerability of each species based on their morphology and flight behaviour.

Information for this region is incomplete and an appropriate Environmental Impact Assessments (EIA) should always be undertaken to fully assess the sensitivity of a site. Further information on the underlying methodology can be found in the Instructions section of the web tool.

Sensitivity category: UNKNOWN

There are insufficient soaring bird data on which to base a sensitivity score. This should not, however, be interpreted as meaning that a site has no or low sensitivity.

Sensitivity category: POTENTIAL A small number of soaring bird records exist within the defined search area suggesting that the site could be sensitive.

Sensitivity category: MEDIUM and HIGH

Soaring bird species are known to be present in significant numbers. Caution advised as development at this location may result in significant impacts on the populations of species present. Development may not be appropriate at or near to this location or may be appropriate only if special mitigation measures are put in place.

Sensitivity category: VERY HIGH and OUTSTANDING

Soaring bird species are known to be present in very significant numbers. Caution advised as development at this location may result in considerable impacts on the populations of species present. Wind energy development is unlikely to be appropriate at or near to this location.



### SPECIES (23)

Name	Peak Count	Presence	SVI	Status	Global population	Source
Peregrine Falcon	-	expected	6	LC	500000	BirdLife species range map
Steppe Eagle	-	expected	9	LC	160000	BirdLife species range map
White Stork	-	tracked	10	LC	510000	Fiedler et al.
Black Stork	-	expected	10	LC	34000	BirdLife species range map
Hen Harrier	-	expected	8	LC	370000	BirdLife species range map
Pallid Harrier	-	expected	8	NT	36000	BirdLife species range map
Montagu's Harrier	-	expected	8	LC	540000	BirdLife species range map
Greater Spotted Eagle	-	expected	9	VU	9100	BirdLife species range map
Lesser Spotted Eagle	-	expected	9	LC	79000	BirdLife species range map
Saker Falcon	-	expected	6	EN	32700	BirdLife species range map
Lesser Kestrel	-	expected	6	LC	170000	BirdLife species range map
Eastern Imperial Eagle	-	expected	9	VU	9250	BirdLife species range map
Eurasian Hobby	-	expected	6	LC	1200000	BirdLife species range map
Common Kestrel	-	expected	6	LC	8000000	BirdLife species range map
Red-footed Falcon	-	expected	6	NT	550000	BirdLife species range map
Common Crane	-	expected	10	LC	365000	BirdLife species range map



### SPECIES (23)

Name	Peak Count	Presence	SVI	Status	Global population	Source
Griffon Vulture	-	expected	10	LC	1000000	BirdLife species range map
Booted Eagle	-	expected	9	LC	253000	BirdLife species range map
Osprey	-	expected	7	LC	750000	BirdLife species range map
European Honey- buzzard	-	expected	7	LC	675000	BirdLife species range map
Short-toed Snake-eagle	-	expected	7	LC	170000	BirdLife species range map
Black Kite	-	expected	8	LC	2625000	BirdLife species range map
Long-legged Buzzard	-	expected	7	LC	274000	BirdLife species range map



### SATELLITE TRACKS (6)

Count	Species	Source
6	White Stork	Fiedler et al.



Name	Peak Count	Presence	SVI		Status	Global population	Source
Peregrine Falcon	-	expected	6		LC	500000	BirdLife species range map
Steppe Eagle	-	expected	9		LC	160000	BirdLife species range map
White Stork	-	tracked	10		LC	510000	Fiedler et al.
Name		SI		Туре	Distance	Source	
Flight - 10		Unknown		Track	unavailable	Fiedler et al.	
Flight - 10		Unknown		Track	unavailable	Fiedler et al.	
Flight - 10		Unknown		Track	unavailable	Fiedler et al.	
Flight - 10		Unknown		Track	unavailable	Fiedler et al.	
Flight - 10		Unknown		Track	unavailable	Fiedler et al.	
Flight - 10		Unknown		Track	unavailable	Fiedler et al.	
Black Stork	-	expected	10		LC	34000	BirdLife species range map
Hen Harrier	-	expected	8		LC	370000	BirdLife species range map
Pallid Harrier	-	expected	8		NT	36000	BirdLife species range map
Montagu's Harrier	-	expected	8		LC	540000	BirdLife species range map
Greater Spotted Eagle	-	expected	9		VU	9100	BirdLife species range map
Lesser Spotted Eagle	-	expected	9		LC	79000	BirdLife species range map



Name	Peak Count	Presence	SVI	Status	Global population	Source
Saker Falcon	-	expected	6	EN	32700	BirdLife species range map
Lesser Kestrel	-	expected	6	LC	170000	BirdLife species range map
Eastern Imperial Eagle	-	expected	9	VU	9250	BirdLife species range map
Eurasian Hobby	-	expected	6	LC	1200000	BirdLife species range map
Common Kestrel	-	expected	6	LC	8000000	BirdLife species range map
Red-footed Falcon	-	expected	6	NT	550000	BirdLife species range map
Common Crane	-	expected	10	LC	365000	BirdLife species range map
Griffon Vulture	-	expected	10	LC	1000000	BirdLife species range map
Booted Eagle	-	expected	9	LC	253000	BirdLife species range map
Osprey	-	expected	7	LC	750000	BirdLife species range map
European Honey- buzzard	-	expected	7	LC	675000	BirdLife species range map
Short-toed Snake- eagle	-	expected	7	LC	170000	BirdLife species range map
Black Kite	-	expected	8	LC	2625000	BirdLife species range map
Long-legged Buzzard	-	expected	7	LC	274000	BirdLife species range map



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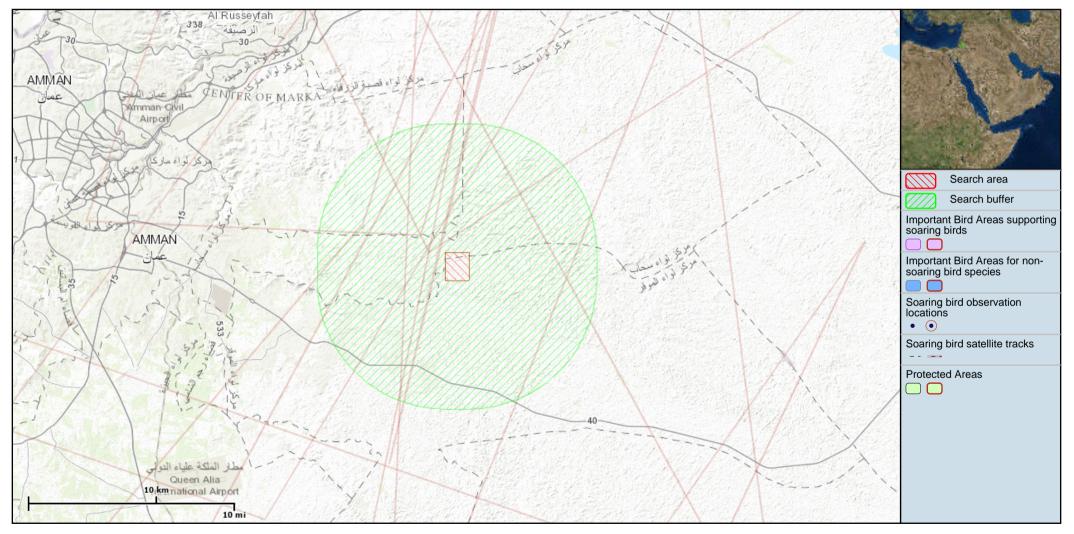
#### SEARCH SUMMARY

Masder 10km Countries: Jordan Centroid: N31.870 E36.210 with 10 km buffer Combined Sensitivity: Potential (0) 0 soaring bird species observed while a further 25 soaring bird species are thought to occur in this area. 0 soaring bird observation locations. 0 IBAs supporting soaring birds plus a further 0 IBAs for non-soaring bird species. 0 protected sites.

10 satellite tracked migratory routes.



#### MAP





#### GUIDANCE ON INTERPRETING SEARCH RESULTS

For each search that a user performs, the tool calculates a sensitivity value based on the available soaring bird data and assigns the location to one of six sensitivity categories (defined in more detail below). This calculation takes into account the proportion of each species' global population present, the global conservation status (IUCN Red List) of each species and the inherent collision vulnerability of each species based on their morphology and flight behaviour.

Information for this region is incomplete and an appropriate Environmental Impact Assessments (EIA) should always be undertaken to fully assess the sensitivity of a site. Further information on the underlying methodology can be found in the Instructions section of the web tool.

Sensitivity category: UNKNOWN

There are insufficient soaring bird data on which to base a sensitivity score. This should not, however, be interpreted as meaning that a site has no or low sensitivity.

Sensitivity category: POTENTIAL A small number of soaring bird records exist within the defined search area suggesting that the site could be sensitive.

Sensitivity category: MEDIUM and HIGH

Soaring bird species are known to be present in significant numbers. Caution advised as development at this location may result in significant impacts on the populations of species present. Development may not be appropriate at or near to this location or may be appropriate only if special mitigation measures are put in place.

Sensitivity category: VERY HIGH and OUTSTANDING

Soaring bird species are known to be present in very significant numbers. Caution advised as development at this location may result in considerable impacts on the populations of species present. Wind energy development is unlikely to be appropriate at or near to this location.



### SPECIES (25)

Name	Peak Count	Presence	SVI	Status	Global population	Source
Lesser Kestrel	-	expected	6	LC	170000	BirdLife species range map
Bonelli's Eagle	-	expected	9	LC	10000	BirdLife species range map
Eastern Imperial Eagle	-	expected	9	VU	9250	BirdLife species range map
Steppe Eagle	-	expected	9	LC	160000	BirdLife species range map
White Stork	-	tracked	10	LC	510000	Fiedler et al.
Black Stork	-	expected	10	LC	34000	BirdLife species range map
Hen Harrier	-	expected	8	LC	370000	BirdLife species range map
Pallid Harrier	-	expected	8	NT	36000	BirdLife species range map
Montagu's Harrier	-	expected	8	LC	540000	BirdLife species range map
Greater Spotted Eagle	-	expected	9	VU	9100	BirdLife species range map
Lesser Spotted Eagle	-	expected	9	LC	79000	BirdLife species range map
Saker Falcon	-	expected	6	EN	32700	BirdLife species range map
Eurasian Sparrowhawk	-	expected	6	LC	4000000	BirdLife species range map
Peregrine Falcon	-	expected	6	LC	500000	BirdLife species range map
Eurasian Hobby	-	expected	6	LC	1200000	BirdLife species range map
Common Kestrel	-	expected	6	LC	8000000	BirdLife species range map



### SPECIES (25)

Name	Peak Count	Presence	SVI	Status	Global population	Source
Red-footed Falcon	-	expected	6	NT	550000	BirdLife species range map
Common Crane	-	expected	10	LC	365000	BirdLife species range map
Griffon Vulture	-	expected	10	LC	1000000	BirdLife species range map
Booted Eagle	-	expected	9	LC	253000	BirdLife species range map
Osprey	-	expected	7	LC	750000	BirdLife species range map
European Honey- buzzard	-	expected	7	LC	675000	BirdLife species range map
Short-toed Snake-eagle	-	expected	7	LC	170000	BirdLife species range map
Black Kite	-	expected	8	LC	2625000	BirdLife species range map
Long-legged Buzzard	-	expected	7	LC	274000	BirdLife species range map



### SATELLITE TRACKS (10)

Count	Species	Source
10	White Stork	Fiedler et al.



Name	Peak Count	Presence	SVI	Status	Global population	Source
Lesser Kestrel	-	expected	6	LC	170000	BirdLife species range map
Bonelli's Eagle	-	expected	9	LC	10000	BirdLife species range map
Eastern Imperial Eagle	-	expected	9	VU	9250	BirdLife species range map
Steppe Eagle	-	expected	9	LC	160000	BirdLife species range map
White Stork	-	tracked	10	LC	510000	Fiedler et al.
Name		SI	Тур	e Distance	Source	
Flight - 10		Unknown	Trac	k unavailable	Fiedler et al.	
Flight - 10		Unknown	Trac	k unavailable	Fiedler et al.	
Flight - 10		Unknown	Trac	k unavailable	Fiedler et al.	
Flight - 10		Unknown	Trac	k unavailable	Fiedler et al.	
Flight - 10		Unknown	Trac	k unavailable	Fiedler et al.	
Flight - 10		Unknown	Trac	k unavailable	Fiedler et al.	
Flight - 10		Unknown	Trac	k unavailable	Fiedler et al.	
Flight - 10		Unknown	Trac	k unavailable	Fiedler et al.	
Flight - 10		Unknown	Trac	k unavailable	Fiedler et al.	
Flight - 10		Unknown	Trac	k unavailable	Fiedler et al.	
Black Stork	-	expected	10	LC	34000	BirdLife species range map



Name	Peak Count	Presence	SVI	Status	Global population	Source
Hen Harrier	-	expected	8	LC	370000	BirdLife species range map
Pallid Harrier	-	expected	8	NT	36000	BirdLife species range map
Montagu's Harrier	-	expected	8	LC	540000	BirdLife species range map
Greater Spotted Eagle	-	expected	9	VU	9100	BirdLife species range map
Lesser Spotted Eagle	-	expected	9	LC	79000	BirdLife species range map
Saker Falcon	-	expected	6	EN	32700	BirdLife species range map
Eurasian Sparrowhawk	-	expected	6	LC	4000000	BirdLife species range map
Peregrine Falcon	-	expected	6	LC	500000	BirdLife species range map
Eurasian Hobby	-	expected	6	LC	1200000	BirdLife species range map
Common Kestrel	-	expected	6	LC	8000000	BirdLife species range map
Red-footed Falcon	-	expected	6	NT	550000	BirdLife species range map
Common Crane	-	expected	10	LC	365000	BirdLife species range map
Griffon Vulture	-	expected	10	LC	1000000	BirdLife species range map
Booted Eagle	-	expected	9	LC	253000	BirdLife species range map
Osprey	-	expected	7	LC	750000	BirdLife species range map



Name	Peak Count	Presence	SVI	Status	Global population	Source
European Honey- buzzard	-	expected	7	LC	675000	BirdLife species range map
Short-toed Snake- eagle	-	expected	7	LC	170000	BirdLife species range map
Black Kite	-	expected	8	LC	2625000	BirdLife species range map
Long-legged Buzzard	-	expected	7	LC	274000	BirdLife species range map



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# APPENDIX D: ARCHAEOLOGICAL SURVEY REPORT



المركز العربي

للدراسات الهندسي

Arab Center For Engineering Studies Partners for Quality Construction

#### ARCHAEOLOGICAL REPORT FOR THE PROJECT 200 MW PV POWER PLANT AL-MUWAQER, JORDAN

Report No.	S16000094
Revision No.	Rev.0
Status	Archaeological Report
Date	27 August 2016

#### PREPARED FOR ABU DHABI FUTURE ENERGY COMPANY- (MASDAR) ABU DHABI, EMIRATES

Revision History								
Rev.0	27 August 2016	For Review	NZ	TW	TW			
Revision No.	Date	Description	Prepared	Checked	Approved	QA Check		



عمان: ص.ب ٢٠٥٥، عمان ١١١٨٢ الأردن هاتف، ١٨٧٧ ه ٢ ٦٢١ فاكس: ١٢٧٧ ٨٥ ٢ ٦٢٢ Amman:P.O. Box 5504 Amman 11183 Jordan Tel: 962 6 5810777 Fax: 962 6 5812777 Empileacesamman@aces.int.com





#### Messrs.: Abu Dhabi future Energy Company- (MASDAR) Abu Dhabi, Emirates

Ref.: S16000094-Rev.0 Date: 27 August 2016

#### Subject: Preliminary Archaeological Report for the Project 200 MW PV power plant Al-Muwaqer, Jordan

Dear Sirs,

Arab Center for Engineering Studies (ACES) is pleased to submit this Archaeological Survey Report and recommendation for the proposed Power Plant Project to be constructed in Al-Muwaqer, Jordan, based on Ministry of tourism and antiquities / Department of Antiquities investigation. Kindly note that the Archaeological Survey Report is presented in **Attachment A** 

#### **1.0 PROJECT DESCRIPTION**

Based on the information provided from the client it understood that 200 MW PV Power Plant with a maximum capacity of 200 MW at delivery point will be developed near Amman. This report provides the presence or absence of any archaeological sites in the project Area.

#### 2.0 RECOMMENDATIONS

According to the Ministry of tourism and antiquities / Department of Antiquities Survey Report, the following considerations and recommendations are provided:

Archaeological Survey Report is covers the Area with the following coordinates:

Point No.	Coordinates					
-onit No.	Northing	Easting				
Point-01	235177	3531395				
Point-02	237652	3531331				
Point-03	237590	3528913				
Point-04	235114	3528977				

#### Table 1: Borders of the Project Area Details

• Ministry of tourism and antiquities / Department of Antiquities gives the permission to start the construction within the project area, however if any archaeological evidences present during the construction activates Department of Antiquities should be notified immediately.

In the event that additional information or clarifications are required, please contact our office at your convenience.

Sincerely yours, Arab Center for Engineering Studies (ACES)

Dr. Thaer Wahshat P.E.

ACES Jordan Manager





## **ARCHAEOLOGICAL SURVEY REPORT**

ACES





نهضة

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7.17/.1/70	التاريخ
	الموافق

السادة المركز العربى للدراسات الهندسية

اشاره لكتابكم المؤرخ في 2016/8/6 والمتضمن طلب عمل مسوحات اثرية ضمن منطقة مشروع مصدر للطاقة لمحطة الطاقة الحرارية الشمسية- الموقر .

أرجو أن اعلمكم بان دائرة الاثار العامة قامت بعمل المسوحات اللازمة من خلال كوادرها المتخصصة في هذا المجال ، وبناءاً عليه لا مانع لدينا من استكمال الاجراءات الخاصة بهذا المشروع، على ان يتم التوقف عن العمل في حال العثور على اية معالم او لقى اثرية اثناء تنفيذ المشروع وابلاغ دائرة الاثار العامة بذلك.

و اقبلوا الاحترام

مدير عام دائرة الأثار العامة

نسخة / المساعد الفني. نسخة/ مديرية آثار العاصمة. نسخة / مديرية التنقيبات الأثريه . ين ح

المملكة الأردنية الهاشمية

دائرة الأثار العامة - جبل عمان - شارع سلطان الاطرش -خلف السفارة الجزائرية - عمارة رقم ( ١٠ ) ص.ب: (٨٨) عمان ١١١١٨ الاردن هانف: ٢٦٤٢٣٦، ٢٦٤١٢٥، ٢٦٤٢٣٦، ٢٦٤٢٢ ٦ ٢٦٢٠ فاكس: ٨٦٨٦٦ ٢ ٢٦٢ + ٢٦٢ www.doa.gov.jo - www.doa.gov.jo - ٢

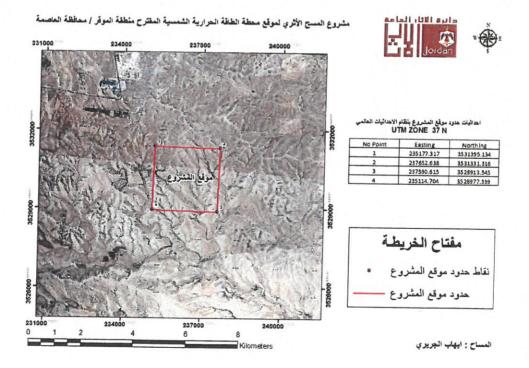
## مشروع المسح الأثري لموقع محطة الطاقة الحرارية الشمسية المقترح منطقة الموقر / محافظة

العاصمة

#### المقدمة:

تقع المنطقة المطلوب مسحها ضمن قطعة الارض رقم (1) حوض تل الركبان من اراضي جنوب عمان / محافظة العاصمة وبالتحديد على بعد مسافة 10 كم للجنوب الشرقي من موقع الماضونة الاثري وعلى مسافة 11 كم شرق الطريق الرئيسي المؤدي الى مطار الملكة علياء الدولي ، ذات شكل مربع تقريبا أبعاده 2.475 كم \* 2.417 كم وبمساحة اجمالية 6000 دونم تقريبا، ويقع حسب الاحداثيات التالية :

No Point	Easting	Northing
1	235177.317	3531395.134
2	237652.638	3531331.316
3	237590.615	3528913.545
4	235114.704	3528977.339



الشكل رقم (1) : صورة جوية لموقع المشروع

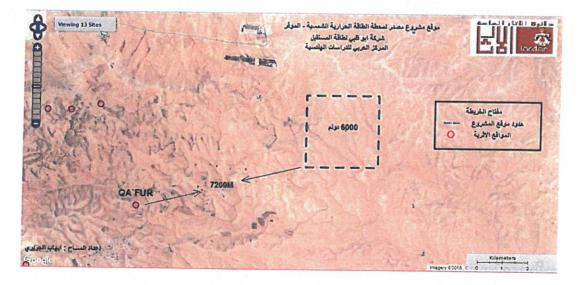


الشكل رقم (2) : صورة فتوغرافية لطبيعة موقع المشروع .

أهداف مشروع المسح :

1- توثيق كافة المعالم الاثرية التي توجد داخل المنطقة المقترحة لمشروع الطاقة الحرارية الشمسية.

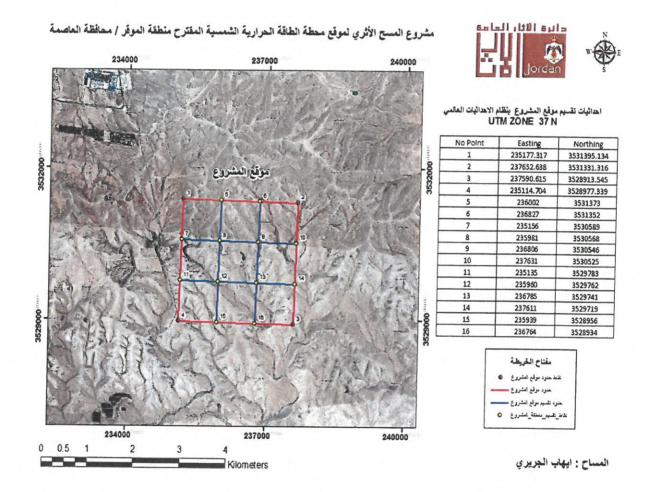
2- توثيق كافة الاعمال الاثرية والمواقع التي ستشملها اعمال المسح الاثري على قاعدة البيانات لدائرة الاثار العامة ( MEGA JORDAN ).



الشكل رقم (3) : مخطط يبين حدود موقع المشروع وبعده عن اقرب موقع اثري مسجل على موقع برنامج (MEGA JORDAN).

آلية العمل في مشروع المسح الأثري:

تم البدء باعمال المسح من قبل الفريق الاثري حيث تم تقسيم منطقة المشروع الى 9 مربعات لتسهيل عملية المسح الاثري بشكل منظم ودقيق ، والتي تقدر مساحة كل مربع بـ 665 دونم تقريبا .

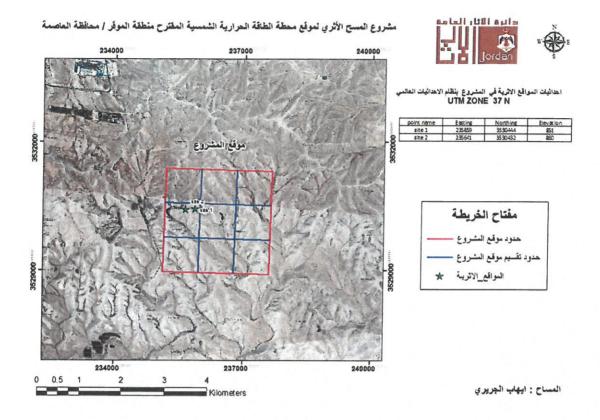


الشكل رقم (4) : مخطط يبين تقسيم منطقة المشروع الى مربعات لتسهيل عملية المسح الاثري.

<u>نتائج المسح الاثرى :</u>

من خلال اعمال المسح الاثري لمنطقة المشروع تبين وجود موقعين اثريين يقعان بالمربع رقم (4) حسب تقسيم منطقة المشروع .

٣



الشكل رقم (5) : مخطط يبين المواقع الاثرية التي تم العثور عليها في منطقة المشروع بالتحديد ضمن المربع رقم (4).

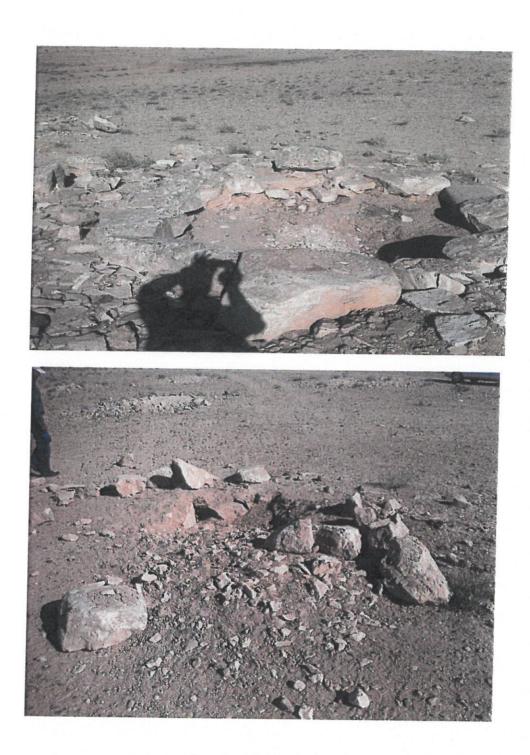
الموقع الأثري رقم (1) :-

بقايا برج عموني صغير ومدمر ومتناثره حجارته بالموقع على شكل دائري قطرة 1 متر تقريبا ، حيث استعملت المنطقة مقبرة من قبل البدو الرحل واصحاب الاغنام وحيث تبلغ ابعادها 15م\*15م ، بالاضافة الى وجود اعمال حفر غير شرعي من قبل الهواه وكذلك الباحثين عن الحجارة للبناء ولم يعثر على اية كسر فخارية على السطح . ويقع ضمن الاحداثية التالية:

E: 0235859

N: 3530444

ELE: 851



الشكل رقم ( 6) : صور فتوغرافية للموقع الاثري رقم (1)

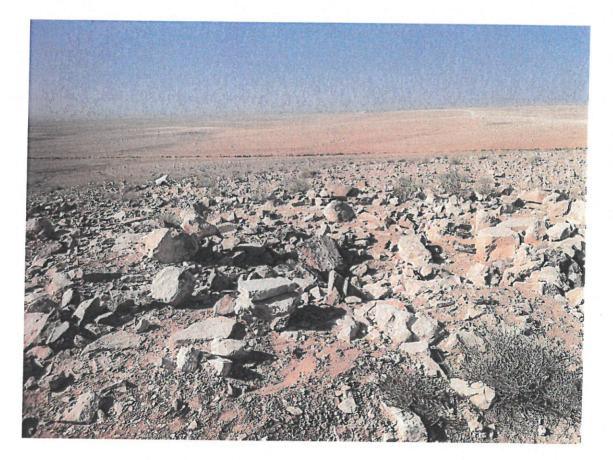
#### الموقع الأثري رقم (2) :-

بقايا برج عموني صغير مدمر دائري بقطر 3 متر تقريبا يقع على ظهر تلة الى الجهة الغربية من الموقع الانري رقم (1) ويبعد عنه ما يقارب 220 متر ، حيث لم يعثر على اية كسر فخارية على السطح ، وتم الاعتداء عليه من قبل هواة الباحثين عن الدفائن الذهبية بالاضافة الى اعمال حفر غير شرعية للاستفادة من حجارة الموقع ، حيث تبلغ ابعاد المنطقة التي يشملها البرج 10م\*10م . ويقع ضمن الاحداثية التالية :

E: 0235641

N: 3530432

ELE: 860



الشكل رقم (7) : صوره فتوغرافية للموقع الأثري رقم (2)

ومع استمرار اعمال المسح لبقية المربعات لم يعثر على اية معالم اثرية تذكر ، حيث ان المنطقة صحراوية مستخدمة من قبل البدو الرحل ومربي الاغنام ، ويظهر على الارض محاولة استغلال بعض الاراضي للزراعة برغم عدم وجود اية مصادر دائمة للمياه واعتمادهم فقط على مياه الامطار ، وهنالك اجزاء من منطقة المشروع طبيعتها ذات حجارة صوانية وجزء اخر ذو طبيعة ترابية حيث يظهر القطع الترابي في الارض على تشكل الوديان نتيجة مياه الامطار المتجمعة فيها .

ولابد من ذكر ان المنطقة هي جزء من المنطقة التي تم مسحها عام 1996 وذلك لغاية فتح شارع (المئه) الدائري والذي يبدأ من الشارع الرئيسي لمقبرة سحاب والمؤدي الى اراضي الزرقاء منطقة وادي العش مرورا بقرية المناخر المحاذية لمنطقة المشروع ولم يعثر بها على اية معالم اثرية تذكر .

التوصيات :

1- التقيد بالمساحة المراد اقامة مشروع محطة للطاقة الحرارية الشمسية ضمن الخطة المقدمة من قبل السادة المركز العربي للدراسات الهندسية.

2- لامانع بالسماح لهم باقامة خطة المشروع شريطة تبليغ دائرة الاثار العامة في حال العثور على اية معالم انثرية اثناء اعمال المشروع.

4 1