

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|---------------------|--------|--------------------|---------|---------|----------------------|----------------------|----------------------|--------------------|---------------------|-------------------|----------------|---------------------|-----------------|-------------------|------------------------------|-------------------|----------------------|----------------------|---------|--------|--------|------------|--------|--------|--------|--|--|--|--|--|--|
| <div><div><div><div>INDOCHEM &amp; POLYMERS</div><div>(Authorised DCA/CS of HPCL-Mittal Energy Ltd.)</div><div>105-B, Cello Triumph, I.B. Patel Road, Goregaon (E), Mumbai -4000</div><div>(T): 022 46021649 Mob no:- 9702096063, 9320034677 email: mumbai@indochempolymers.com</div></div></div><div><div><div>HMEC</div><div>Emerging a Brighter Tomorrow</div></div></div></div> <div>Price Cir ref: HMEC/Marketing/PE/HDPE/2024-25/21 Dtd: 01st February 2026</div>                                                                           |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
| Ex-Works Price                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | HD IM                        |                     |        |                    |         |         |                      |                      |                      |                    | GPBM                |                   |                |                     |                 | MBM               |                              | LBM               |                      | PIPE                 |         |        |        | Off Grades |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | M0252S/<br>M0255D<br>(2 MFt) | M0662D<br>(6.5 MFt) | M0861S | M2050S<br>(20 MFt) | M0662DU | M0861SU | B0155D<br>(0.35 MFt) | B0158D<br>(0.35 MFt) | B0151D<br>(0.35 MFt) | B0148D<br>(10 MFt) | B0053D<br>(2.5 MFt) | P0049D<br>PE100   | P0148D<br>PE80 | P0142S<br>PE63      | P0142SU<br>PE63 | Y0154S<br>(1 MFt) | R0150S/<br>R0151D<br>(1 MFt) | F0050D<br>(8 MFt) | F0146D<br>(0.18 MFt) | F0153S<br>(0.20 MFt) | B0045DU | OGHDBD | OGHDED | OGHDMD     | OGHDES | OGHDMS | OGHDLD |  |  |  |  |  |  |
| Ex Bathinda                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Basic                      | 105300                       | 102700              | 102700 | 104200             | 104300  | 104300  | 101700               | 101700               | 101700               | 104800             | 107200              | 107100            | 106300         | 103900              | 108300          | 107100            | 108500                       | 104100            | 104400               | 104400               | 111700  | 96200  | 102000 | 95700      | 102000 | 95700  | 101700 |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cash Discount              | 1100                         | 1100                | 1100   | 1100               | 1100    | 1100    | 1100                 | 1100                 | 1100                 | 1100               | 1100                | 1100              | 1100           | 1100                | 1100            | 1100              | 1100                         | 1100              | 1100                 | 1100                 | 1100    | 1100   | 1100   | 1100       | 1100   | 1100   | 1100   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Cash)   | 104200                       | 101600              | 101600 | 103100             | 103200  | 103200  | 100600               | 100600               | 100600               | 103700             | 106100              | 106000            | 105200         | 102800              | 107200          | 106000            | 107400                       | 103000            | 103300               | 103300               | 110600  | 95100  | 100900 | 94600      | 100900 | 94600  | 100600 |  |  |  |  |  |  |
| Mumbai                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Locational Adjustments     | 5900                         | 6000                | 6000   | 5230               | 6280    | 6280    | 4050                 | 4050                 | 4050                 | 5020               | 4050                | 6700              | 7310           | 5340                | 7890            | 6270              | 7230                         | 5370              | 5770                 | 5770                 | 4050    | 4050   | 7230   | 6000       | 7230   | 6000   | 4050   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Freight & Insurance        | 2800                         | 2800                | 2800   | 2800               | 2800    | 2800    | 2800                 | 2800                 | 2800                 | 2800               | 2800                | 2800              | 2800           | 2800                | 2800            | 2800              | 2800                         | 2800              | 2800                 | 2800                 | 2800    | 2800   | 2800   | 2800       | 2800   | 2800   | 2800   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Credit) | 102200                       | 99500               | 99500  | 101770             | 100820  | 100820  | 100450               | 100450               | 100450               | 102580             | 105950              | 103200            | 101790         | 101360              | 103210          | 103630            | 104070                       | 101530            | 101430               | 101430               | 110450  | 94950  | 97570  | 92500      | 97570  | 92500  | 100450 |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Cash)   | 101100                       | 98400               | 98400  | 100670             | 99720   | 99720   | 99350                | 99350                | 99350                | 101480             | 104850              | 102100            | 100690         | 100260              | 102110          | 102530            | 102970                       | 100430            | 100330               | 100330               | 109350  | 93850  | 96470  | 91400      | 96470  | 91400  | 99350  |  |  |  |  |  |  |
| Bhiwandi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Locational Adjustments     | 6000                         | 5970                | 5970   | 5200               | 6250    | 6250    | 4020                 | 4020                 | 4020                 | 5060               | 4020                | 6730              | 7440           | 6360                | 8910            | 6300              | 7260                         | 5610              | 5740                 | 5740                 | 4020    | 4020   | 7260   | 5970       | 7260   | 5970   | 4020   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Freight & Insurance        | 2770                         | 2770                | 2770   | 2770               | 2770    | 2770    | 2770                 | 2770                 | 2770                 | 2770               | 2770                | 2770              | 2770           | 2770                | 2770            | 2770              | 2770                         | 2770              | 2770                 | 2770                 | 2770    | 2770   | 2770   | 2770       | 2770   | 2770   | 2770   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Credit) | 102070                       | 99500               | 99500  | 101770             | 100820  | 100820  | 100450               | 100450               | 100450               | 102510             | 105950              | 103140            | 101630         | 100310              | 102160          | 103570            | 104010                       | 101260            | 101430               | 101430               | 110450  | 94950  | 97510  | 92500      | 97510  | 92500  | 100450 |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Cash)   | 100970                       | 98400               | 98400  | 100670             | 99720   | 99720   | 99350                | 99350                | 99350                | 101410             | 104850              | 102040            | 100530         | 99210               | 101060          | 102470            | 102910                       | 100160            | 100330               | 100330               | 109350  | 93850  | 96410  | 91400      | 96410  | 91400  | 99350  |  |  |  |  |  |  |
| Daman / Dadra / Silvassa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Locational Adjustments     | 5310                         | 5370                | 5370   | 4590               | 5650    | 5650    | 3420                 | 3420                 | 3420                 | 4430               | 3420                | 6000              | 6600           | 4640                | 7190            | 6560              | 7270                         | 5050              | 5140                 | 5140                 | 3420    | 3420   | 7270   | 5370       | 7270   | 5370   | 3420   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Freight & Insurance        | 2290                         | 2290                | 2290   | 2290               | 2290    | 2290    | 2290                 | 2290                 | 2290                 | 2290               | 2290                | 2290              | 2290           | 2290                | 2290            | 2290              | 2290                         | 2290              | 2290                 | 2290                 | 2290    | 2290   | 2290   | 2290       | 2290   | 2290   | 2290   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Credit) | 102280                       | 99620               | 99620  | 101900             | 100940  | 100940  | 100570               | 100570               | 100570               | 102660             | 106070              | 103390            | 101990         | 101550              | 103400          | 102830            | 103520                       | 101340            | 101550               | 101550               | 110570  | 96070  | 97020  | 92620      | 97020  | 92620  | 100570 |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Cash)   | 101180                       | 98520               | 98520  | 100800             | 99840   | 99840   | 99470                | 99470                | 99470                | 101560             | 104970              | 102290            | 100890         | 100450              | 102300          | 101730            | 102420                       | 100240            | 100450               | 100450               | 109470  | 93970  | 95920  | 91520      | 95920  | 91520  | 99470  |  |  |  |  |  |  |
| Vapi/Valsad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Locational Adjustments     | 5180                         | 5510                | 5510   | 4740               | 5790    | 5790    | 3560                 | 3560                 | 3560                 | 4560               | 3560                | 7100              | 7110           | 6090                | 7110            | 6230              | 5700                         | 4920              | 5280                 | 5280                 | 3560    | 3560   | 5700   | 5510       | 5700   | 5510   | 3560   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Freight & Insurance        | 2290                         | 2290                | 2290   | 2290               | 2290    | 2290    | 2290                 | 2290                 | 2290                 | 2290               | 2290                | 2290              | 2290           | 2290                | 2290            | 2290              | 2290                         | 2290              | 2290                 | 2290                 | 2290    | 2290   | 2290   | 2290       | 2290   | 2290   | 2290   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Credit) | 100910                       | 99480               | 99480  | 101250             | 99300   | 99300   | 99930                | 99930                | 99930                | 100430             | 100430              | 101790            | 99980          | 98600               | 103480          | 101660            | 103590                       | 100470            | 100410               | 99910                | 110430  | 94430  | 97090  | 92480      | 97090  | 90980  | 98930  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Cash)   | 101310                       | 98380               | 98380  | 100650             | 99700   | 99700   | 99330                | 99330                | 99330                | 101430             | 104830              | 101190            | 100380         | 99000               | 102380          | 102060            | 103990                       | 100370            | 100310               | 100310               | 109330  | 93830  | 97490  | 91380      | 97490  | 91380  | 99330  |  |  |  |  |  |  |
| Nasik                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Locational Adjustments     | 6500                         | 5680                | 5680   | 4910               | 5960    | 5960    | 3730                 | 3730                 | 3730                 | 5130               | 3730                | 7580              | 8190           | 7210                | 9760            | 6370              | 7340                         | 5160              | 5450                 | 5450                 | 3730    | 3730   | 7340   | 5680       | 7340   | 5680   | 3730   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Freight & Insurance        | 2800                         | 2800                | 2800   | 2800               | 2800    | 2800    | 2800                 | 2800                 | 2800                 | 2800               | 2800                | 2800              | 2800           | 2800                | 2800            | 2800              | 2800                         | 2800              | 2800                 | 2800                 | 2800    | 2800   | 2800   | 2800       | 2800   | 2800   | 2800   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Credit) | 101600                       | 99820               | 99820  | 102090             | 2630    | 101140  | 100770               | 100770               | 100770               | 102470             | 106270              | 102320            | 100910         | 99490               | 101340          | 103530            | 103960                       | 101740            | 101750               | 101750               | 110770  | 95270  | 97460  | 92820      | 97460  | 92820  | 100770 |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Cash)   | 100500                       | 98720               | 98720  | 100990             | 100040  | 100040  | 99670                | 99670                | 99670                | 101370             | 105170              | 101220            | 99810          | 98390               | 100240          | 102430            | 102860                       | 100640            | 100650               | 100650               | 109670  | 94170  | 96360  | 91720      | 96360  | 91720  | 99670  |  |  |  |  |  |  |
| Jalgaon/Dhule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Locational Adjustments     | 5720                         | 5280                | 5280   | 4500               | 5560    | 5560    | 3330                 | 3330                 | 3330                 | 4530               | 3330                | 6730              | 6800           | 5620                | 8170            | 5660              | 7170                         | 4230              | 5050                 | 5050                 | 3330    | 3330   | 7170   | 5280       | 7170   | 5280   | 3330   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Freight & Insurance        | 3100                         | 3100                | 3100   | 3100               | 3100    | 3100    | 3100                 | 3100                 | 3100                 | 3100               | 3100                | 3100              | 3100           | 3100                | 3100            | 3100              | 3100                         | 3100              | 3100                 | 3100                 | 3100    | 3100   | 3100   | 3100       | 3100   | 3100   | 3100   |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Credit) | 102680                       | 100520              | 100520 | 102800             | 3500    | 101840  | 101470               | 101470               | 101470               | 103370             | 106070              | 103470            | 102600         | 101380              | 103230          | 104540            | 104430                       | 102970            | 102450               | 111470               | 95970   | 97930  | 93520  | 97930      | 93520  | 101470 |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Bathinda Basic (Cash)   | 101580                       | 99420               | 99420  | 101700             | 100740  | 100740  | 100370               | 100370               | 100370               | 102270             | 105870              | 102370            | 101500         | 100280              | 102130          | 103440            | 103330                       | 101870            | 101350               | 101350               | 110370  | 94870  | 91030  | 92420      | 96830  | 92420  | 100370 |  |  |  |  |  |  |
| Ex CS Depot Price                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | HDPE IM                      |                     |        |                    |         |         |                      |                      |                      |                    | GPBM                |                   |                |                     |                 | MBM               |                              | LBM               |                      | PIPE                 |         |        |        | Off Grades |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | M0252S/<br>M0255D<br>(2 MFt) | M0662D<br>(6.5 MFt) | M0861S | M2050S<br>(20 MFt) | M0662DU | M0861SU | B0155D<br>(0.35 MFt) | B0158D<br>(0.35 MFt) | B0151D<br>(0.35 MFt) | B0148D<br>(10 MFt) | B0053D<br>(2.5 MFt) | P0049D<br>(8 MFt) | P0148D<br>PE80 | P0142S<br>(0.6 MFt) | P0142SU<br>PE63 | Y0154S<br>(1 MFt) | R0150S/<br>R0151D<br>(1 MFt) | F0050D<br>(8 MFt) | F0146D<br>(0.18 MFt) | F0153S<br>(0.20 MFt) | B0045DU | OGHDBD | OGHDED | OGHDMD     | OGHDES | OGHDMS | OGHDLD |  |  |  |  |  |  |
| Vapi/Daman / Silvassa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ex Depot (Credit+Basic)    | 102010                       | 99080               | 99080  | 101350             | 100400  | 100400  | 100030               | 100030               | 100030               | 102130             | 105530              | 101890            | 101080         | 99700               | 103080          | 102760            | 104690                       | 101070            | 101010               | 101010               | 110030  | 94530  | 98190  | 92080      | 98190  | 92080  | 100030 |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Depot (Cash+Basic)      | 100910                       | 97980               | 97980  | 100250             | 99300   | 99300   | 98930                | 98930                | 98930                | 101030             | 104430              | 100790            | 99980          | 98600               | 101980          | 101660            | 103590                       | 99970             | 99910                | 99910                | 100930  | 93430  | 97090  | 90980      | 97090  | 90980  | 98930  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ex Depot (Credit+Basic)    | 101670                       | 99100               | 99100  | 101370             | 100420  | 100420  | 100050               | 100050               | 100050               | 102110             | 105550              | 102740            | 101230         | 99910               | 101760          | 103170            | 103610                       | 100860            | 101030               | 110050               | 94550   | 97110  | 92100  | 97110      | 92100  | 100050 |        |  |  |  |  |  |  |
| Bhiwandi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ex Depot (Cash+Basic)      | 100570                       | 98000               | 98000  | 100270             | 99320   | 99320   | 98950                | 98950                | 98950                | 101010             | 104450              | 101640            | 100130         | 98810               | 100660          | 102070            | 102510                       | 99760             | 99930                | 99930                | 100950  | 93450  | 96010  | 91000      | 96010  | 91000  | 98950  |  |  |  |  |  |  |
| Terms & Conditions :-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
| DISCOUNTS :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
| 1. Locational Adjustment shall be applicable as per the attached price list.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
| 2. Cash Discount CD of Rs.1100 per MT shall be available in lieu of Interest Free Credit (IFC) Applicable on Pre-GST basis for Ex-works sales, Ex-CS Depot & Ex-Company Warehouse supply. CD is applicable on all the grades except PS, PW and GS.3. For Non-Prime grades please refer price circular.                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
| CREDIT TERM & MODE OF PAYMENT:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
| 1. 14 days Interest Free Credit (IFC) (excluding date of payment) shall be available to the customers on Their Ex-Works, Ex-CS Depot & Ex-Company Warehouse off-take, in Lieu of Cash Discount. 2. An Early payment Discount (EPD) of Rs.80/MT/day will be applicable on credit sales, if the full invoice payment is received before the due date, EPD shall be available for maximum of 13 days. 3. Delayed Payment Policy (Cash Sale) - Interest on late payment @ 36% (Per Annum) from the due date. 4. IFC is applicable on all the grades except PS, PW and GS. T & C applied. 5. Introductory Discount is included in above depot pricing. 6. Non Prime Grades will be cheaper by Rs 800/- than Prime Grades. |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                              |                     |        |                    |         |         |                      |                      |                      |                    |                     |                   |                |                     |                 |                   |                              |                   |                      |                      |         |        |        |            |        |        |        |  |  |  |  |  |  |